



THE 19th INTERNATIONAL CONFERENCE ON MAGNETISM

July 8 - 13, 2012 Bexco, Busan, Korea

www.icm2012.org



Hosted by **KPS** The Korean Physical Society

KMS The Korean Magnetics Society

IUPAP International Union of Pure and Applied Physics

WELCOME ADDRESS

Dear Colleagues,

On behalf of the Organizing Committee, and all of those who were involved in preparing for the 19th International Conference on Magnetism (ICM2012), we wish to extend a warm-hearted welcome to all participants of ICM2012. It is our great honor and privilege to host the ICM2012 in Korea.

The major scientific societies in Korea, the Korean Physical Society (KPS) and the Korean Magnetics Society (KMS) are pleased to co-host the ICM2012, under the auspices of the International Union of Pure and Applied Physics (IUPAP). The ICM2012 incorporates the International Conference on Strongly Correlated Electron Systems (SCES) held annually.

As the most highly acclaimed conference, a considerable number of abstracts have been submitted from 52 countries around the world. In this conference, we expect over 1,700 participants around the world. For the scientific program, we have planned 7 plenary lectures including 3 Nobel laureates' lectures, 14 Half-plenary lectures, 509 oral presentations including 135 invited lectures, along with 1,502 poster presentations. In addition, 7 satellite symposia will be held before or after the ICM2012.

I wish to take this opportunity to thank all the sponsors for their generous support for the ICM2012. Also, I would like to convey my sincere gratitude to the international advisory members for their valuable advices and to the members of the ICM2012 organizing committee for their tremendous efforts in making this conference a success.

We wish you all a fruitful meeting and hope that you will benefit from the rich scientific programs, and your visit to wonderful Busan will last forever as a pleasant memory.

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A handwritten signature in black ink, appearing to read "Shin".

Prof. Sung-Chul Shin
Chairperson, ICM2012
President, DGIST

ORGANIZING COMMITTEE

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1. Strongly Correlated Electron System (SCES) (including Superconductivity/ Multiferroics)			
1-1 Multiferroics	Keehoon Kim Taka-hisa Arima M. Fiebig Tsuyoshi Kimura Tae Won Noh Je-Geun Park L. P. Regnault	Seoul National University University of Tokyo ETH Osaka University Seoul National University Seoul National University ILL	Korea Japan Switzerland Japan Korea Korea France
1-2 Superconductivity	T. Devereaux Yunkyu Bang D. L. Feng Changyoung Kim Matthias Vojta	Standford University Co-chair / Chonnam National University Fudan University Yonsei University Technische Universitaet Dresden	USA Korea China Korea Germany
1-3 Topological Insulators	Hu-Jong Lee Mahn-Soo Choi Jun Sung Kim Young-Woo Son Han Woong Yeom	POSTECH Korea University Pohang University of Science and Technology Korea Institute for Advanced Study Pohang University of Science and Technology	Korea Korea Korea Korea Korea
1-4 Heavy Fermion Systems	Joe D. Thompson Meigan Aronson Piers Coleman Noriaki Sato	Co-chair / Los Alamos National Laboratory Brookhaven National Laboratory Rutgers University Nagoya University	USA USA UK Japan
1-5 Valence Fluctuations	Tuson Park Jeongsoo Kang Kazumasa Miyake Huiqiu Yuan	Sungkyunkwan University The Catholic University of Korea Osaka University Zhejiang University	Korea Korea Japan China
1-6 Non-Fermi Liquids and Quantum Phase Transitions	Suchitra Sebastian A. Huxley Yuji Matsuda Toby Perring	University of Cambridge University Edinburgh Kyoto University ISIS	UK UK Japan UK

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1-7	Steffen Wirth Konndo Impurity and Kondo Lattice Systems	Max Planck Institute for Chemical Physics of Solids University Paris The Catholic University of Korea DGIST	Germany France Korea Korea
1-8	Takami Tohyama Theory of Strongly Correlated Matter	Kyoto University Standford University Max Planck Institute for Solid State Research Seoul National University	Japan USA Germany Korea
2. Quantum and Classical Spin Systems	Byungil Min Giniyat Khaliullin Mi Young Kim Jae-Hoon Park Myriam P. Sarachik	POSTECH Max Planck Institute for Solid State Research Ajou University POSTECH City College of New York-CUNY	Korea Germany Korea Korea USA
3. Magnetic Structures and Interactions	Kibong Lee Des McMorrow Seung-Hun Lee Je-Geun Park Kazuyoshi Yamada	POSTECH University College London University of Virginia Seoul Natonal University KEK	Korea UK USA Korea Japan
4. Magnetization Dynamics and Micromagnetics	Sang-Koog Kim Kristen Buchanan Sug-Bong Choe Oksana Chubykalo-Fesenko Volodymyr Kruglyak Guido Meier	Seoul Natonal University Colorado State University Seoul Natonal University Instituto de Ciencia de Materiales de Madrid, CSIC University of Exeter University of Hamburg	Korea USA Korea Spain UK Germany
5. Spin-Dependent Transport	Hyun-Woo Lee Myung-Hwa Jung Stephen Russek Henk Swagten Suzuki Yoshishige	POSTECH Sogang University NIST Eindhoven University of Technology Osaka University	Korea Korea USA Netherlands Japan
6. Spin Electronics	Byoung Chul Min Ursula Ebels Xiufeng Han Kyung-Jin Lee Teruo Ono Joerg Wunderlich	KIST SPINTEC State Key Laboratory of Magnetism Korea University Kyoto University Hitachi Cambridge Lab	Korea France China Korea Japan UK

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7. Magnetic Thin Films, Particles and Nanostructure	Sang Ho Lim Chan Yong Hwang Tae Hee Kim Seiji Mitani Zi Q. Qiu	Korea University KRISS Ewha Wonans University NIMS UC-Berkeley	Korea Korea Korea Japan USA
8. Soft and Hard Magnetic Materials and their Applications	Hae-Woong Kwon Hirotoshi Fukunaga Satoshi Sugimoto Seong-cho Yu	Pukyong National University Nagasaki University Tohoku University Chungbuk National University	Korea Japan Japan Korea
9. Novel Materials and Device Applications	Sunglae Cho Beongki Cho Alessandra Continenza Gendo Oomi	University of Ulsan Gwangju Institute of Science and Technology (GIST) Universita' degli studi dell'Aquila Kurume Institute of Technology	Korea Korea Italy Japan
10. Magnetic Recording and Memories	Eunsik Kim Sung Woong Chung Katsuji Nakagawa Shin Saito	Samsung Electronic Co. Hynix Nihon University Tohoku University	Korea Korea Japan Japan
11. Measuring Techniques and Instrumentation	Derac Son Michael Hall Massimo Pasquale Kwon Sang Yoo	Hannam University National Physical Laboratory INRIM KRISS	Korea UK Italy Korea
12. Industrial Applications	Kyung-Ho Shin Sang Yun Cha	KIST POSCO	Korea Korea
13. Interdisciplinary Topics	Cheol Gi Kim Hubert Brueckl Wooyoung Lee Jian-Ping Wang	Chungnam National University AIT Austrian Institute of Technology GmbH Yonsei University University of Minnesota	Korea Austria Korea USA

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	Soonchil Lee	KAIST	Korea
	Joo Yull Rhee	Sungkyunkwan University	Korea
	Seok-Soo Yoon	Andong National University	Korea

Plenary Speakers

Albert Fert	CNRS/Thales and University Paris-Sud	France
*Nobel laureate in Physics (2007)		
Andre Geim	University of Manchester	UK
*Nobel laureate in Physics (2010)		
Klaus von Klitzing	Max Planck Institute for Solid State Research	Germany
*Nobel laureate in Physics (1985)		
Sang-Wook Cheong	Rutgers University	USA
Zachary Fisk	University of California, Irvine	USA
Sadamichi Maekawa	Japan Atomic Energy Agency	Japan
Roland Wiesendanger	University of Hamburg	Germany

Half-Plenary Speakers

Gabriel Aeppli	University College London	UK
Piers Coleman	Rutgers University	UK
Claudia Felser	Max Planck Institute for Chemical Physics of Solids	Germany
Laura Heyderman	Paul Scherrer Institute	Switzerland
Bernhard Keimer	Max Planck Institute for Solid State Research	Germany
Hyun-Woo Lee	POSTECH	Korea
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Yoshichika Onuki	Osaka University	Japan
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Caroline Ross	Massachusetts Institute of Technology	USA
Yoshinori Tokura	University of Tokyo	Japan
Shoucheng Zhang	Stanford University	USA
Xiaozhong Zhang	Tsinghua University	China

PROGRAM AT-A-GLANCE

Time	July 8 (Sun)	July 9 (Mon)	July 10 (Tue)	July 11 (Wed)	July 12 (Thu)	July 13 (Fri)
08:30						
09:00		Opening & Award				
10:00		Plenary 1 PP01	Half-Plenary 1~6 HP11~HP32			
11:00		Coffee Break		Plenary 5 PP05		
12:00		Plenary 2 PP02	Coffee Break	Coffee Break	Coffee Break	Coffee Break
13:00		Plenary 3 PP02	Invited & Contributed CA~CJ	Invited & Contributed FA~FE	Invited & Contributed GA~GJ	Invited & Contributed KA~KJ
14:00	Registration	Lunch	Lunch	Lunch	Lunch	Lunch
15:00		Poster Presentation I PA~PO	Poster Presentation II QA~QP			
16:00	KPS 60th Anniversary Nobel laureate in Physics Public Lecture	Invited & Contributed AA~KJ	Invited & Contributed DA~DJ			
17:00		Break	Break			
18:00	Welcome Reception	Invited & Contributed BA~BJ	Invited & Contributed EA~EJ			
19:00						
20:00						

PROGRAM AT-A-GLANCE

July 8 (Sun)

		1F			2F			3F				
	Auditorium	Room 101~3	Room 106~8	Room 104~5	Room 109~10	Room 201	Room 202	Room 203	Room 204	Room 205	Room 206	Room 301
08:00												
09:00												
10:00												
11:00												
12:00												
13:00												
14:00												
15:00	KPS 60th Anniversary Nobel laureate in Physics Public Lecture 1) Albert Fert 2) Klaus von Klitzing											
16:00												
17:00												
18:00					Welcome Reception (2F, Lobby)							
19:00												
20:00												

July 8 (Sun)

PROGRAM AT-A-GLANCE

July 9 (Mon)

		1F			2F			3F				
	Auditorium	Room 101~3	Room 106~8	Room 104~5	Room 109~10	Room 201	Room 202	Room 203	Room 204	Room 205	Room 206	Room 301
08:00												
09:00	Opening&Award											
10:00	PP01 Plenary 1 Albert Fert											
11:00	PP02 Plenary 2 Satoshi Maekawa											
12:00	PP03 Plenary 3 Zachary Fisk											
13:00												
14:00												
15:00	AA Mniferroic I - mainly manganites	AB Non-Fermi liquids and quantum phase transitions I	AC Low-dimensional / Frustrated spin systems	AD Surface and interface effects I	AE Electric field effect on magnetic systems	AF Advanced methods of spin-structure determination	AG Arrays of magnetic nanostructures I	AH Magnetic transducers in biomedicine	AI Semiconductor spintronics I - group IV materials	AJ Crystalline, nanocrystalline and amorphous materials		
16:00	BA Superconductivity I - cuprate and other superconductors	BB Valence fluctuations I	BC Organic and molecular magnetism Spin ladder	BD Exchange bias	BE Magnetic semiconductor	BF 3d transition metal oxides	BG Energy assisted magnetic recording	BH Interdisciplinary technology	BI STT MRAM and magnetic logic	BJ Ferrites, garnets and other materials		
17:00												
18:00												
19:00												
20:00												

PROGRAM AT-A-GLANCE

July 10 (Tue)

July 10 (Tue)															
	1F			2F			3F								
	Auditorium	Room 101~3	Room 106~8	Room 104~5	Room 109~10	Room 201	Room 202	Room 203	Room 204	Room 205	Room 206	Room 207	Room 301	Exhibition	
08:00															
09:00	HP11 Half-Plenary 1 Yoshichika Onuki	HP21 Half-Plenary 3 Hyun-Woo Lee													
10:00	HP12 Half-Plenary 2 Tae-Won Noh	HP22 Half-Plenary 4 Piers Coleman													
11:00	CA Superconductivity II - cuprate and other superconductors	CB Magnetic nanoparticles I	CC Spin liquid / Spin ice	CD Heavy fermions I	CE Spin transfer oscillators	CF Actinides and Lanthanides	CG Semiconductor spintronics II - group III-V materials	CH Heusler alloys etc	CI Multiferroic II - scattering	CJ Magneto-dielectric materials or meta-materials				Exhibition	
12:00															
13:00															
14:00															
15:00															
16:00	DA Diluted magnetic semiconductors	DB Kondo systems I	DC Spin-orbit / Spin-orbital physics	DD Diluted magnetic semiconductors and others	DE Magnetic memories and logics	DF Chiral magnet and magnetic skyrmions	DG Magnetic nanowires	DH Oxide	DI Spin caloritronics I	DJ Applications					
17:00	EA Non-fermiliquds and quantum phase transitions II	EB SCES Theory I	EC Electronic structure / Spintronic materials	ED Magnetic thin films and nanostructures	EE Spin-orbit spin torque	EF Intermetallic compounds	EG Metalspintronics I	EH Novel materials and devices I	EI Perpendicular magnetic anisotropy materials	EJ Rare-earth hard magnetic materials				Exhibition	
18:00															
19:00															
20:00															

PROGRAM AT-A-GLANCE

July 11 (Wed)

July 11 (Wed)															
	1F			2F			3F								
	Auditorium	Room 101~3	Room 106~8	Room 104~5	Room 109~10	Room 201	Room 202	Room 203	Room 204	Room 205	Room 206	Room 207	Room 301	Exhibition	
08:00															
09:00	PP04 Plenary 4 Klaus von Klitzing														
10:00	PP05 Plenary 5 Roland Wiesendanger														
11:00	FA Spin caloritronics II	FB Heavy fermions II		FC Ultrafast switching I	FD Vortex dynamics I	FE SCES theory II									
12:00															
13:00															
14:00															
15:00															
16:00															
17:00														Excursion	
18:00															
19:00															
20:00															

PROGRAM AT-A-GLANCE

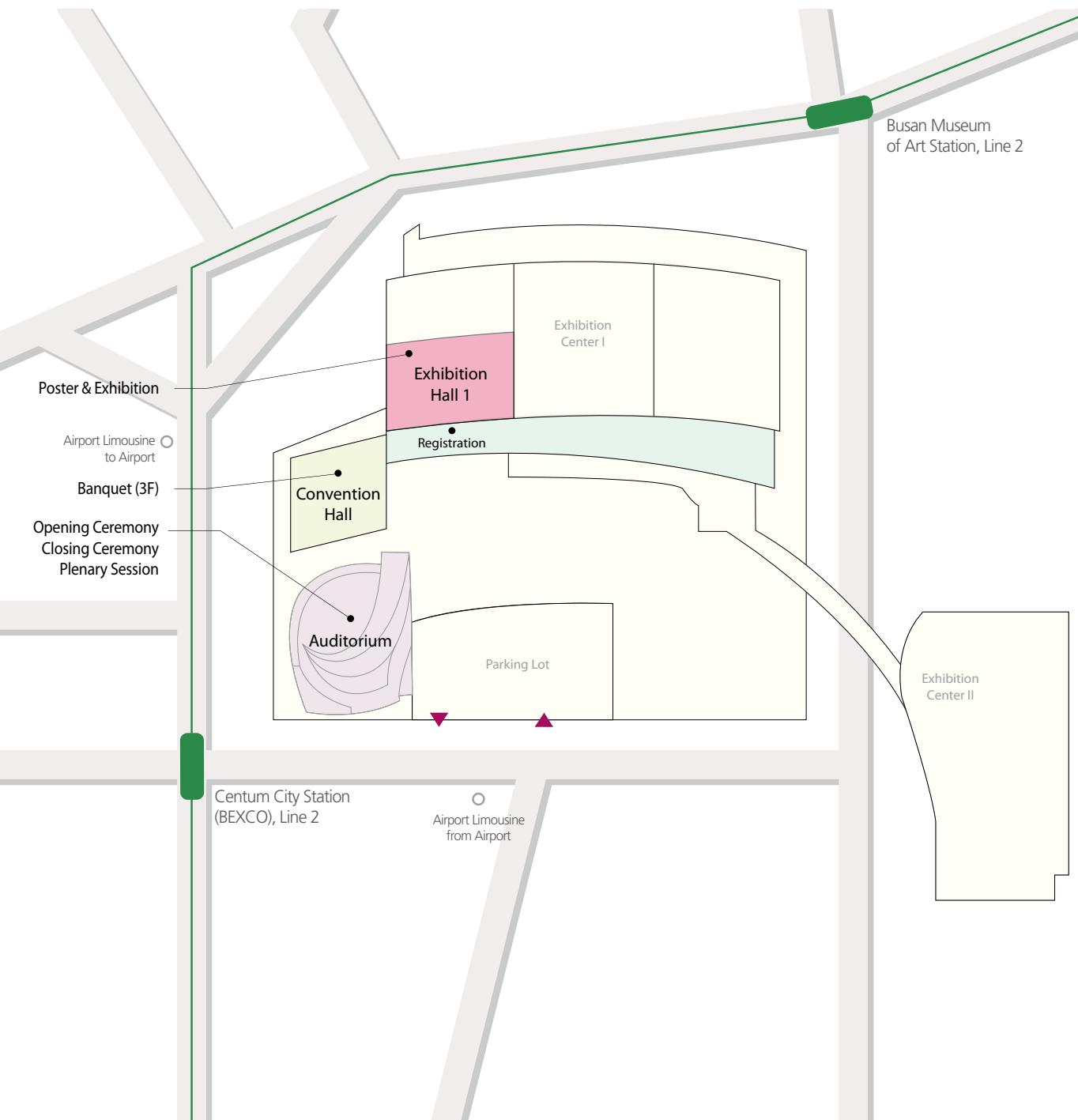
July 12 (Thu)

PROGRAM AT-A-GLANCE

July 13 (Fri)

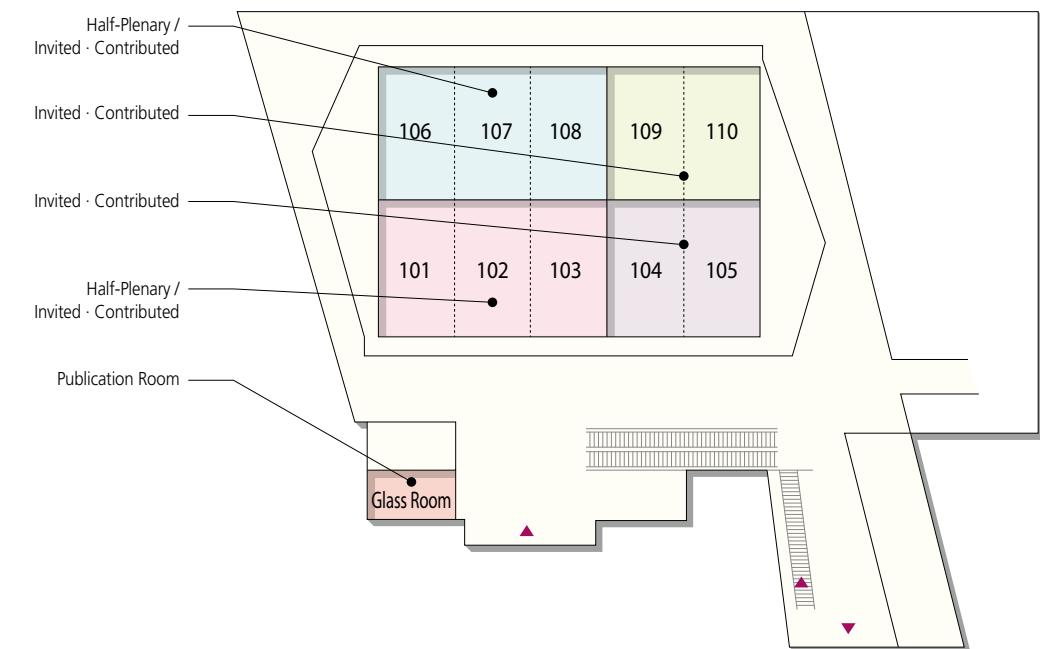
VENUE LAYOUT

BEXCO

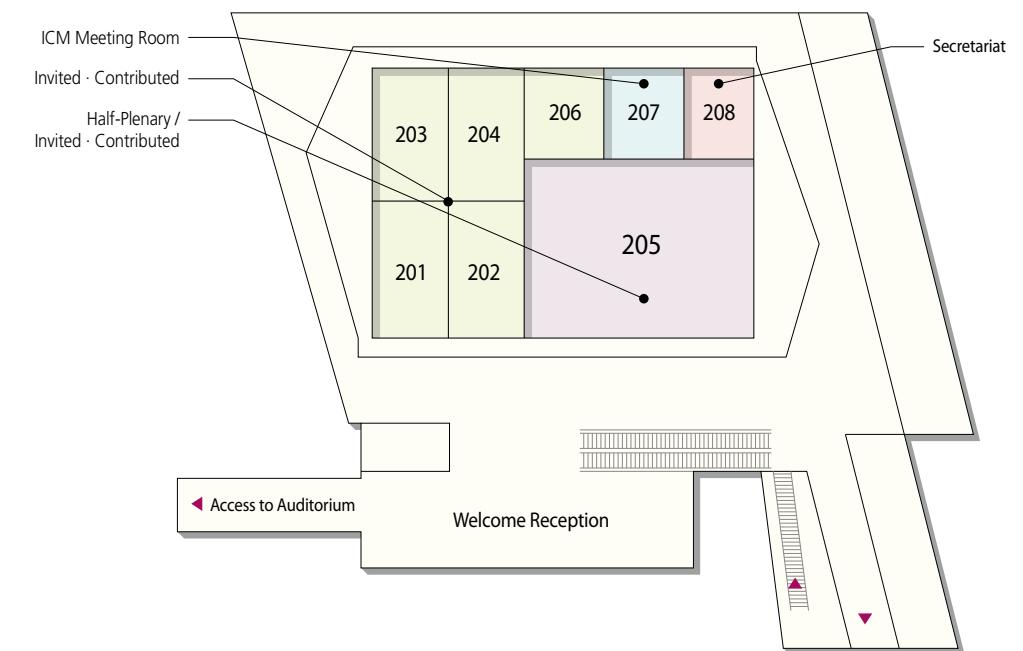


VENUE LAYOUT

Convention Hall (1F)



Convention Hall (2F)



KPS 60th Anniversary Nobel Laureate Public Lectures in Physics

In celebration of the KPS's 60th anniversary, the Public Lecture of Nobel laureate in Physics will be a program allowing the general public to learn about the interesting aspects of Physics. This public lecture program will be an exciting and enjoyable experience. Please do not miss this chance to take the lectures on free.

This public lecture program will be an exciting and enjoyable experience for Korean audience interested in Physics.

- Date & Time: July 8 (Sun), 15:00~17:00
- Venue: Auditorium
- Lecture:
 1. Prof. Albert Fert - Spintronics and its impact on information and communication technologies
 2. Prof. Klaus von Klitzing - New applications of my Nobel prize

Welcome Reception

You will experience a warm welcome from the host of ICM2012. All participants are highly welcome.

Light refreshments and beer will be provided free of charge.

- Date & Time: July 8 (Sun), 17:00~19:00
- Venue: Lobby of Convention Hall, 2F

Opening Ceremony

ICM2012 will officially get started with a ceremony at Auditorium in Bexco. All registered participants are cordially invited to join us and celebrate the official opening.

- Date & Time: July 9 (Mon), 08:30~09:00
- Venue: Auditorium

ICM Award 2012

The IUPAP Magnetism Award and Néel Medal are presented every three years at the International Magnetism Conference to a scientist in recognition of an outstanding contribution to the field of magnetism. The award is sponsored by Elsevier Science B.V.. The IUPAP Young Scientist Medals in the field of magnetism are presented every three years at the International Magnetism Conference. The medals are sponsored by IUPAP.

- Date & Time: July 9 (Mon), 08:30~09:00
- Venue: Auditorium

Magnetism Award and Néel Medal 2012

- Sadamichi Maekawa (Japan Atomic Energy Agency, Japan)
Heat and spin
- Yoshinori Tokura (University of Tokyo, Japan)
Electrodynamics of skyrmions

Young Scientist Medals in the Field of Magnetism

- Suchitra E. Sebastian (University of Cambridge, UK)
Nodal pocket revealed by quantum oscillations in an underdoped cuprate superconductor

Banquet

Please join us to share an unforgettable evening. A delicious dinner with a traditional Korean music show, Samulnori (traditional percussion quartet) and 'B-boy', is combined to recreate the wonderful excitement performance.

- Date & Time: July 12 (Thu), 19:00~20:30
- Venue: Room 301 (3F), Convention Hall

Closing Ceremony

Have the opportunity to say farewell to friends and colleagues and to preview the next venue of ICM2015.

- Date & Time: July 13 (Fri), 17:30~18:00
- Venue: Auditorium

Industrial Tour

Participants those who applied for industrial tour of Samsung Heavy Industries Co., Ltd. should be gathered at 13:20 on July 11 (Wed) at the lobby. We will leave 13:30 on time. Application can be acceptable until 10:00 on July 9 at the information desk (Max. 100 people).

- Date & Time: July 11 (Wed), 13:30~18:00
- Destination: Samsung Heavy Industries Co., Ltd.

GENERAL INFORMATION

Scientific Program

ICM2012 program will consist of 7 plenary talks (1 hr), 14 half-plenary talks (45 min) and 135 invited talks (30 min). Over 2,000 contributed papers will be presented, 353 of them have been selected for oral presentation (15 min). In addition, poster presentations with ample time for discussion will be conducted. The official conference language is English. The program will focus on following topics;

1. Strongly Correlated Electron System (SCES)
2. Quantum and Classical Spin Systems
3. Magnetic Structures and Interactions
4. Magnetization Dynamics and Micromagnetics
5. Spin-Dependent Transport
6. Spin Electronics
7. Magnetic Thin Films, Particles and Nanostructures
8. Soft and Hard Magnetic Materials and Their Applications
9. Novel Materials and Device Applications
10. Magnetic Recording and Memories
11. Measuring Techniques and Instrumentation
12. Industrial Applications
13. Interdisciplinary Topics

Registration

All attendees will be required to wear the ICM2012 badge to access to all session.

- Venue: Lobby, Exhibition Hall 1
- Operation: July 8 (Sun) / 13:00~19:00
July 9 (Mon) ~ 12 (Thu) / 08:00~19:00
July 13 (Fri) / 08:00~13:00

Registration Fee

	Category	On-site Registration
Registration Fee	Regular Participant	KRW 750,000
	Student/Retired Participant	KRW 400,000
	Accompanying Person	KRW 250,000
Banquet Fee (July 12)	All Participants	KRW 60,000

* Participant's registration includes: Welcome reception, coffee breaks, admission to all scientific sessions, and a conference bag including abstract book

* Accompanying person's registration includes: Welcome reception, coffee breaks, banquet coupon and conference bag.

Admission to scientific sessions is not included.

Certificate of Attendance

The certificate of attendance is provided at the information desk on request or available for download via the website after the conference (www.icm2012.org).

Internet Lounge

Internet access will be available during the conference at the Exhibition Hall where a PC computer pool will be provided.

GENERAL INFORMATION

Oral Presentation Guideline

Authors are expected to bring their presentations on their own laptop computer, and to have it powered up and ready to connect to the projector. Only standard PC-style VGA connections to the LCD projector will be supplied, therefore you must supply any required adaptor to connect up your computer.

Poster Presentation Guideline

Posters are displayed in the Exhibition Hall 1 (1F). Poster should be posted by 08:30 and dismantled after 18:00 on the allotted date. The secretariat will not be held liable for any lost or damaged posters. All poster presenters are encouraged to be at their poster panels for discussion with participants during the time. All posters will be eligible for nomination for the best poster awards in each day.

- Venue: Exhibition Hall 1
- Operation: July 9, 10, 12, 13 (4days), 13:30~15:30
Affixation: 08:30~13:00 / Presentation: 13:30~15:30 / Removal: 18:00~19:00
- Affixation & Removal: All presenters are requested to affix their posters and remove them after their presentation according to the above schedule. The secretariat will not be held liable for any posters lost or damaged.
- Best Poster Award: There is a competition for the best poster. This award is given to recognize excellence in research and presentation. There will be two awards for each day. Each session chair is to nominate a single poster. The final review will be run by program executive members and the best awards are announced 30 minutes before the closing of the session.

Publication Room

Authors can check the status of their manuscripts in the Publication Room, located in the Glass Room on the first floor of convention hall. Office hour of the Publication Room for authors will be as follows.

- Operation Hours: July 9 (Mon), 15:00~17:00
July 10 (Tue), 12 (Thu), 10:00~12:00, 15:00~17:00
July 11 (Wed), 13 (Fri), 10:00~12:00

Coffee Break

Enjoy your break with a cup of coffee or tea that will be prepared as below;

	July 9 (Mon)	July 10 (Tue)	July 11 (Wed)	July 12 (Thu)	July 13 (Fri)
Morning	10:00~10:20 Lobby Auditorium	10:30~11:00 1F, 2F Lobby Conventional Hall			
	13:30~15:30 Exhibition Hall	13:30~15:30 Exhibition Hall	-	13:30~15:30 Exhibition Hall	13:30~15:30 Exhibition Hall
Afternoon					

Cloak Room

The cloakroom will be located in the exhibition hall so that you could keep your luggage during the conference.

GENERAL INFORMATION

Water Station

One or two bottles of water will be provided each day. The Water Coupons will be given to all participants when you register. It will be contributed at the cloak room.

Complimentary Shuttle Service

Shuttle bus will run between the conference venue and hotels. You may check the schedule and shuttle bus stop. The bus stop will be marked with banner stands at BEXCO.

Hotel	July 8 (Sun)		July 9 (Mon)		July 10 (Tue)		July 11 (Wed)		July 12 (Thu)		July 13 (Fri)	
	H → B	B → H	H → B	B → H	H → B	B → H	H → B	B → H	H → B	B → H	H → B	B → H
The Westin Chosun Busan	13:00 14:00	18:00 19:00	08:00 08:30	19:10 19:40	08:00 08:30	19:10 19:40	08:00 08:30	13:00 14:00	08:00 08:30	19:10 21:00	08:00 08:30	18:30 19:00
Paradise Hotel Busan Seacloud Hotel	13:00 14:00	18:00 19:00	08:00 08:30	19:10 19:40	08:00 08:30	19:10 19:40	08:00 08:30	13:00 14:00	08:00 08:30	19:10 21:00	08:00 08:30	18:30 19:00
Hotel Riviera Haeundae	13:00 14:00	18:00 19:00	08:00 08:30	19:10 19:40	08:00 08:30	19:10 19:40	08:00 08:30	13:00 14:00	08:00 08:30	19:10 21:00	08:00 08:30	18:30 19:00
Novotel Hotel Busan Ambassador	13:00 14:00	18:00 19:00	08:00 08:30	19:10 19:40	08:00 08:30	19:10 19:40	08:00 08:30	13:00 14:00	08:00 08:30	19:10 21:00	08:00 08:30	18:30 19:00
Lotte Hotel Busan	14:00	19:00	8:00	19:10	8:00	19:10	8:00	13:00	8:00	19:10	8:00	18:30
Hanwha Resort	13:00 14:00	18:00 19:00	08:00 08:30	19:10 19:40	08:00 08:30	19:10 19:40	08:00 08:30	13:00 14:00	08:00 08:30	19:10 21:00	08:00 08:30	18:30 19:00

* H → B: From Hotel to Bexco, B → H: From Bexco to Hotel

* Shuttle Service won't be provided for Haeundae Centum Hotel and ARPINA Buasn Youth Hostel located in walking distance.

* Participant who is staying in Haeundae Grand Hotel, please take a shuttle bus at the Westin Chosun Busan.

Venue: BEXCO (Busan Exhibition Convention Center)

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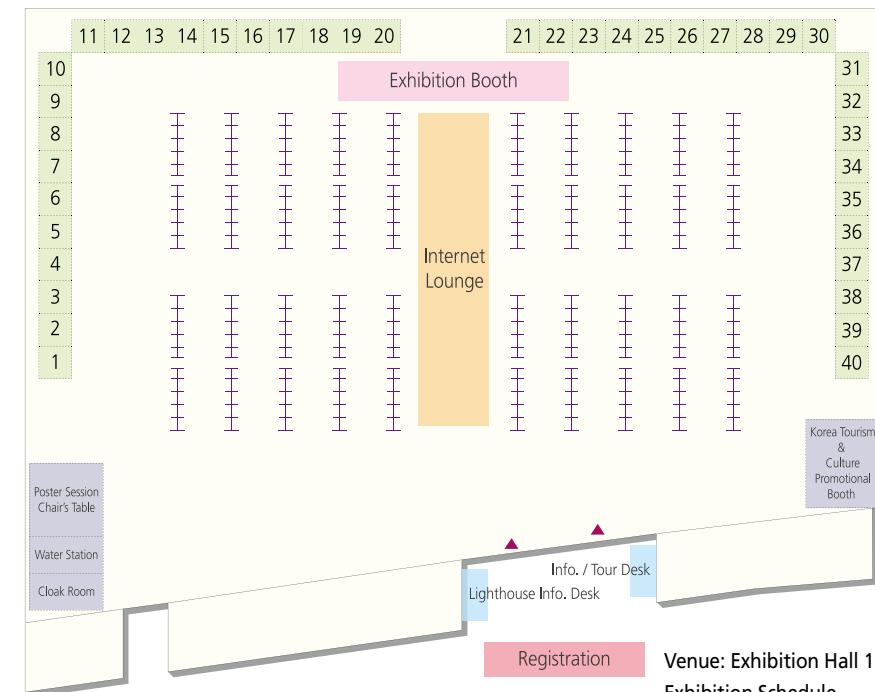
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ICM2012 Secretariat

- Onsite Secretariat Office: Room 208, Convention Hall, Tel: 051-740-3730
- After the Conference: 1f Haeoreum Bldg.,16, Yeoksamro 17 gil, Gangnam-gu, Seoul 135-925, Korea
Tel: +82-2-557-8422 Fax: +82-2-566-6087 Email: icm@icm2012.org
Website: www.icm2012.org

EXHIBITION

Exhibition Hall (1F)



Venue: Exhibition Hall 1

Exhibition Schedule

• Installation: Shell Scheme Booth: July 8 (Sun) 08:00~
Exhibits & Display: July 8 (Sun) 18:00~24:00

• Exhibition Hours: July 9 (Mon)~12 (Thu), 09:00~19:00
July 13 (Fri), 09:00~16:00

• Removal: July 13 (Fri), 16:00~20:00

Exhibitor	Booth No.	Exhibitor	Booth No.	Exhibitor	Booth No.
Aaron. Co., Ltd.	16	Hyundai Motor Company	21, 22, 23	Quantum Design	24, 25
Ask Co.	9	ICM2015-Barcelona	40	ReC-SDSW(Seoul National University)	7
Carl Zeiss	27	Korea I.T.S.	17, 18	Rigong International Inc.	13
ChangSung Co.	19, 20	Lake Shore Cryotronics	8	Semi-Ence Co., Ltd.	32
Coxem	31	Namotec	15	SmartTip BV	11
Cryogenic Ltd.	30	Nanomagnetics Instruments	10	Springer	36, 37
DGIST	1, 2	NT-MDT ANT Co.	26	Surface Systems Korea	12
Effucell	33	Oxford University Press	38	The Physical Society of Japan	39
ExaTech	29	PANalytical Korea	34	Top Techology Ltd.	14
HANARO @ KAERI	6	Park Systems Co.	35	UNIST	3
Hinds Instruments Inc.	28	Pohang Accelerator Laboratory	4, 5		

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SCIENTIFIC PROGRAM

Plenary Lecture • 27

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Invited & Contributed Presentation • 30

PLENARY LECTURE

Plenary 1

July 9 (Mon), 09:00~10:00, Auditorium

Chairperson: Myriam Sarachik (CUNY, USA)

PP01 Recent developments and emerging directions in spintronics

Albert Fert, *Unité Mixte de Physique CNRS/Thales, Palaiseau, and Université Paris-Sud, France*

Plenary 2

July 9 (Mon), 10:20~11:20, Auditorium

Chairperson: Ivan Schuller (UCSD, USA)

PP02 Heat and spin

Sadamichi Maekawa, *Japan Atomic Energy Agency, Japan*

Plenary 3

July 9 (Mon), 11:20~12:20, Auditorium

Chairperson: Ernst Bauer (Vienna University of Technology, Austria)

PP03 Heavy electrons and superconductivity

Zachary Fisk, *University of California, Irvine, USA*

Plenary 4

July 11 (Wed), 08:30~09:30, Auditorium

Chairperson: Y. Otani (University of Tokyo, Japan)

PP04 Correlated electrons in quantum hall systems

Klaus V. Klitzing, *Max-Planck-Institut für Festkörperforschung, Heisenbergstr. 1, D-70569 Stuttgart, Germany*

Plenary 5

July 11 (Wed), 09:30~10:30, Auditorium

Chairperson: Qi-Kun Xue (Tsinghua University, China)

PP05 From single-atom magnetometry to tailored nanomagnets and atomic-scale spintronic devices

Roland Wiesendanger, *Institute of Applied Physics, University of Hamburg, Germany*

Plenary 6

July 13 (Fri), 15:30~16:30, Auditorium

Chairperson: L. Chapon (Institut Laue-Langevin, France)

PP06 Multiferroic vortex network with Z_2Z_3 symmetry

Sang-wook Cheong, *Rutgers University, USA*

Plenary 7

July 13 (Fri), 16:30~17:30, Auditorium

Chairperson: Yoon Hee Jeong (POSTECH, Korea)

PP07 Graphene's magnetism

Andre Geim, *University of Manchester, United Kingdom*

HALF-PLENARY LECTURE

Half-Plenary 1, 2

July 10 (Tue), 09:00~10:30, Room 101~3 (1F)

Chairperson: Hilbert V. Lohneysen (Karlsruhe Institute of Technology, Germany)

- HP11 Heavy fermions and unconventional superconductivity in high-quality single crystals of rare earth and actinide compounds
09:00 Yoshichika Onuki, *Graduate School of Science, Osaka University, Japan*
- HP12 Effects of spin-orbit-coupling in the electronic structures of 5d transition metal oxides
09:45 T. W. Noh, *Physics and Astronomy, Seoul National University, Korea*

Half-Plenary 3, 4

July 10 (Tue), 09:00~10:30, Room 106~8 (1F)

Chairperson: Tomas Jungwirth (Institute of Physics ASCR, Czech Republic)

- HP21 Magnetization dynamics of rashba ferromagnet
09:00 Hyun-woo Lee, *Department of Physics, POSTECH, Korea*
- HP22 Giant Ising anisotropy and hastatic order in URu_2Si_2 (1,2)
09:45 Piers Coleman, *Dept of Physics and Astronomy, Rutgers University, United Kingdom*

Half-Plenary 5, 6

July 10 (Tue), 09:00~10:30, Room 205 (2F)

Chairperson: Harold Hwang (Stanford University, USA)

- HP31 Electrodynamics of skyrmions
09:00 Yoshinori Tokura, *Department of Applied Physics, University of Tokyo, Japan*
- HP32 Spin and charge fluctuations in cuprate superconductors
09:45 Bernhard Keimer, *Max Planck Institute for Solid State Research, Germany*

Half-Plenary 7, 8

July 11 (Wed), 11:00~12:30, Room 205 (2F)

Chairperson: Eunsik Kim (Samsung Electronic Co., Korea)

- HP41 The spin on domain walls!
11:00 Stuart Parkin, *IBM Almaden Research Center, USA*
- HP42 Orbitronics in silicon
11:45 Gabriel Aeppli, *University College London, United Kingdom*

HALF-PLENARY LECTURE

Half-Plenary 9,10

July 12 (Thu), 09:00~10:30, Room 101~3 (1F)

Chairperson: Burkard Hillebrands (TU Kaiserslautern, Germany)

- HP51 360 degree domain walls in magnetic nanowires
09:00 Caroline A Ross, *Department of Materials Science and Engineering, Massachusetts Institute of Technology, USA*
- HP52 Perpendicular CoFeB-MgO for spintronics devices
09:45 Hideo Ohno, *CSIS/RIEC, Tohoku University, Japan*

Half-Plenary 11, 12

July 12 (Thu), 09:00~10:30, Room 106~8 (1F)

Chairperson: Yuri Suzuki (Stanford University , USA)

- HP61 Geometric enhancement of low field magnetoresistance in silicon
09:00 Xiaozhong Zhang, *Department of Materials Science and Engineering, Tsinghua University, China*
- HP62 Artificial spin ice systems: exploring frustration and emergent magnetic monopoles with nanomagnets
09:45 Laura Heyderman, *Paul Scherrer Institute, Switzerland*

Half-Plenary 13, 14

July 12 (Thu), 09:00~10:30, Room 205 (2F)

Chairperson: Young-Woo Son (KIAS, Korea)

- HP71 Topological insulators
09:00 Shoucheng Zhang, *Physics, Stanford University, USA*
- HP72 Heusler compounds: from semiconductors to spintronics
09:45 Claudia Felser, *Max Planck Institute for Chemical Physics of Solids, Germany*

AA: Multiferroics I - mainly manganites

July 9 (Mon), 15:30~17:00, Room 101~3 (1F)

Chairperson: D. Argyriou (European Spallation Source ESS AB, Sweden)

AA01 Orbital and spin states of bi-layered manganites $\text{La}_{2-2x}\text{Sr}_{1+2x}\text{Mn}_2\text{O}_7$ 15:30 Jae-Hoon Park, *Pohang University of Science and Technology, Korea***AA02 First-principles calculation of multiferroic bilayer manganite**16:00 Kunihiko Yamauchi^{1*} and Silvia Picozzi², ¹*ISIR-Sanken, Osaka University, Japan*; ²*CNR-SPIN, L'Aquila, Italy***AA03 Coupling between lattice and spin degrees of freedom in multiferroic h-RMn_3** 16:15 Xavier Fabreges^{1*}, Sylvain Petit² and Isabelle Mirebeau², ¹*LNCMI, Toulouse, CNRS, France*; ²*Laboratoire Leon Brillouin, CEA Saclay, France***AA04 Magnetoelectric coupling in hematite amplified by the collective transition**16:30 J. L. Musfeldt^{1*}, P. Chen¹, N. Lee², S. Mc Gil³ and S. W. Cheong², ¹*Department of Chemistry, University of Tennessee, USA*; ²*Department of Physics, Rutgers University, USA*; ³*National High Magnetic Field Laboratory, USA***AA05 Time dependence of multiferroic switching**16:45 Max Baum¹, Thomas Finger¹, Simon Holbein¹, Jonas Stein¹, Jeannis Leist², Gotz Eckold², Paul Steffens³, Arno Hiess³, Karin Schmalz³, Petra Becker⁴, Ladislav Bohaty⁴ and Markus Braden¹, ¹*IIL Physikalisches Institut, Universitat zu Koln, Germany*; ²*Institut fur Physikalische Chemie, Georg-August-Universitat Gottingen, Germany*; ³*Institut Laue-Langevin (ILL), Grenoble, France*; ⁴*Institut fur Kristallographie, Universitat zu Koln, Germany***AB: Non-fermi liquids and quantum phase transitions I**

July 9 (Mon), 15:30~17:00, Room 106~8 (1F)

Chairperson: Gun Sang Jeon (Ewha Womans University, Korea)

AB01 Quantum criticality, non-fermi liquid and unconventional superconductivity15:30 Qimiao Si, *Department of Physics and Astronomy, Rice University, USA***AB02 Ternary compounds with ZrFe_4Si_2 structure type: A new playground for ferromagnetic and antiferromagnetic quantum criticality**16:00 Christoph Geibel^{1*}, Cornelius Krellner¹, Nadang Mufti¹, Helge Rosner¹, Manuel Brando¹, Frank Steglich¹, Stefan Lausberg¹, Alexander Steppke¹, Luis Pedrero¹, Lucia Steinke¹, Robert Kuchler¹, Edith Lengyel¹, Michael Nicklas¹, Christoph Bergmann¹, Katharina Weber¹, Till Goltz², Johannes Spehling², Nicolas Yeche², Hans-henning Klauss², Theo Woike³, Hubertus Luetkens⁴, Kamil Sedlak⁴ and Christopher Baines⁴, ¹*Max Planck Institute for Chemical Physics of Solids, Germany*; ²*Institute for Solid State Physics, Technical University Dresden, Germany*; ³*Institute for structural Physics, Technical University Dresden, Germany*; ⁴*Laboratory for Muon-Spin-Spectroscopy, Paul-Scherrer-Institute, Switzerland***AB03 Anomalous thermoelectric effects in the heavy fermion superconductor Ce_2PdIn_8** 16:30 Marcin Matusiak, Daniel Gnida and Dariusz Kaczorowski^{*}, *Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Poland***AB04 Pressure driven quantum critical point in CeNiAsO** 16:45 Yongkang Luo¹, Leonid Pourovskii², Stephen Rowley³, Yuke Li⁴, Chunmu Feng¹, Antoine Georges², N. P. Ong³, Jianhui Dai⁴, Guanghan Cao¹ and Zhuan Xu^{1*}, ¹*Department of Physics, Zhejiang University, China*; ²*Centre de Physique Theorique, Ecole Polytechnique, France*; ³*Department of Physics, Princeton University, USA*; ⁴*Department of Physics, Hangzhou Normal University, China***AC: Low-dimensional / Frustrated spin systems**

July 9 (Mon), 15:30~17:00, Room 104~5 (1F)

Chairperson: Giniyat Khaliullin (MPI, Germany)

AC01 HgTe as a topological insulator15:30 Laurens Wiggolt Molenkamp, *Experimental Physics 3, University of Wuerzburg, Physics Institute, Germany***AC02 Spin liquid and spin glass states in frustrated magnets**16:00 Seung-hun Lee, *University of Virginia, USA***AC03 A novel magnetic order of ZnCr_2O_4 revealed by magneto-optical measurements in ultra-high magnetic fields of up to 600 T**16:30 Atsuhiko Miyata^{1*}, Shojiro Takeyama¹ and Hiroaki Ueda², ¹*Institute for Solid State Physics, University of Tokyo, Japan*; ²*Department of Chemistry, Graduate School of Science, Kyoto University, Japan***AC04 Origin and signatures of magnetic chirality in the frustrated multiferroic $\text{Ba}_3\text{NbFe}_3\text{Si}_2\text{O}_{14}$** 16:45 Andrej Zorko¹, Virginie Simonet² and Rafik Ballou², ¹*Jozef Stefan Institute, Slovenia*; ²*Institut Neel, CNRS and Universite Joseph Fourier, France***AD: Surface and interface effects I**

July 9 (Mon), 15:30~17:00, Room 109~10 (1F)

Chairperson: Atsufumi Hirohata (University of York, UK)

AD01 Investigating magnetic dipolar interactions between Co nano-islands with spin-polarized scanning tunneling microscopy15:30 Chun-i Lu, Pin-jui Hsu, Szu-wei Chen, Yu-hsun Chu, Chuang-han Hsu, Wang-jung Hsueh and Minn-tsung Lin^{1,2*}, ¹*Department of Physics, National Taiwan University, 10617 Taipei, Taiwan*; ²*Institute of Atomic and Molecular Sciences, Academia Sinica, 10617 Taipei, Taiwan***AD02 Temperature-driven oscillatory magnetic anisotropy in ultrathin ferromagnetic films**16:00 Maciej Dabrowski¹, Uwe Bauer¹, Marek Przybyski^{1*}, Marek Cinal², Emmanuelle Jal³, Jean-marc Tonnerre³ and Jurgen Kirschner¹, ¹*Max-Planck-Institut fur Mikrostrukturphysik, Halle, Germany*; ²*Institute of Physical Chemistry of Polish Academy of Sciences, Warsaw, Poland*; ³*Institut Neel, CNRS & Universite J. Fourier, Grenoble, France***AD03 Magnetism of ultrathin Fe films on $\text{BaTiO}_3(001)$** 16:15 Seoilun Yang¹, Jae-sung Kim^{1*}, Xumin Chen², Axel Enders², Jan Honolk³, Violetta Sessi⁴, Tiffany Santos⁵ and Matthias Bode⁶, ¹*SookMyung Women's University, Korea*; ²*University of Nebraska, Lincoln, USA*; ³*Max Planck Institute for Solids state physics, Germany*; ⁴*European synchrotron research facility, France*; ⁵*Argon National laboratory, USA*; ⁶*University of Wuerzburg, Germany***AD04 Thickness-dependent exchange splitting of EuO ultrathin films**16:30 Hidetoshi Miyazaki^{1*}, Tetsuya Hajiri², Masaharu Matsunami³, Takahiro Ito² and Shin-ichi Kimura³, ¹*Center for Fostering Young and Innovative Researchers, Nagoya Institute of Technology, Japan*; ²*Graduate School of Engineering, Nagoya University, Japan*; ³*UVSOR, The Graduate University for Advanced Studies, Japan*

AE: Electric field effect on magnetic systems

July 9 (Mon), 15:30~17:00, Room 201 (2F)

Chairperson: X. Xu (Shanxi Normal University, China)

- AE01** Magnetoelectric control of magnetic anisotropy in ultrathin Fe films using a charge-trap heterostructure

15:30 Uwe Bauer¹, Marek Przybylski², Jurgen Kirschner² and Geoffrey Beach^{1*}, ¹Materials Science and Engineering, MIT, USA; ²Max-Planck-Institut für Mikrostrukturphysik, Germany

- AE02** The origin of electric-field effects on magnetic anisotropy in FePd ultrathin film

15:45 Shinya Haraguchi¹, Yuusaku Taguchi¹, Masahito Tsujikawa² and Tatsuki Oda^{3*}, ¹Graduate School of Natural Science and Technology, Kanazawa University, Japan; ²CSIS, Tohoku University, Japan; ³Institute of Science and Engineering, Kanazawa University, Japan

- AE03** Ferroelectric control of spin polarization

16:00 Manuel Bibes^{1*}, Vincent Garcia¹, Sergio Valencia², Arnaud Crassous¹, Laura Bocher³, Alexandre Gloter³, Stephane Fusil¹, Karim Bouzehouane¹, Xavier Moya⁴, Neil D Mathur⁴ and Agnes Barthelemy¹, ¹Unité Mixte de Physique CNRS/Thales, France; ²HZB Berlin, Germany; ³Lab. Physique des Solides, Orsay, France; ⁴University of Cambridge, United Kingdom

- AE04** Voltage controlled spin transport channel

16:30 Hyuk-jae Jang^{1*}, Oleg A. Kirillov², Oana D. Jurchescu³ and Curt A. Richter², ¹NIST & WFU, USA; ²NIST, USA; ³Physics, Wake Forest University, USA

- AE05** Zeeman-type spin splitting controlled by an electric field

16:45 Hongtao Yuan^{1*}, Mohammad Saeed Bahramy², Kazuhiro Morimoto¹, Kentaro Nomura³, Hidekazu Shimotani¹, Ryotaro Arita¹, Christian Kloc⁴, Naoto Nagaosa¹ and Yoshihiro Iwasa¹. ¹Department of Applied Physics, University of Tokyo, Japan; ²CREG, RIKEN, Japan; ³Department of Physics, Tohoku University, Japan; ⁴School of Materials Science and Engineering, Nanyang Technological University, Singapore

AF: Advanced methods of spin structure determination

July 9 (Mon), 15:30~17:00, Room 202 (2F)

Chairperson: Des McMorrow (University College London, UK)

- AF01** Femtoscale magnetically induced lattice distortions in multiferroic TbMnO₃

15:30 Helen Walker^{1*}, Francois De Bergevin², Federica Fabrizi³, Luigi Paolasini², Andrew Boothroyd³, Dharmalingam Prabhakaran³ and Desmond McMorrow⁴, ¹Resonant Scattering and Diffraction Beamline P09, PETRA III, HASYLAB at DESY, Germany; ²European Synchrotron Radiation Facility, France; ³Department of Physics, University of Oxford, United Kingdom; ⁴London Centre for Nanotechnology, University College London, United Kingdom

- AF02** Direct measurement of the interatomic distance dependence of the magnetic exchange interaction

16:00 Alexander Schwarz^{1*}, Rene Schmidt¹, Cesar Lazo², Stefan Heinze² and Roland Wiesendanger¹, ¹Institute of Applied Physics, University of Hamburg, Germany; ²Christian-Albrecht University Kiel, Germany

- AF03** Magnetic nanodomains in manganites revealed by Lorentz TEM and small-angle electron scattering

16:15 Yoshihiko Togawa¹, Tsukasa Koyama², Ken Harada² and Shigeo Mori², ¹Nanoscience and Nanotechnology Research Center, Osaka Prefecture University, Japan; ²Department of Materials Science, Osaka Prefecture University, Japan

AF04 Morin transition control of antiferromagnetic α-Fe₂O₃ films with epitaxial strains

16:30 Seonghun Park¹, Jae-hoon Park² and Jae-young Kim^{3*}, ¹Department of Physics, POSTECH, Korea; ²Department of Physics, POSTECH, Korea; ³Pohang Accelerator Laboratory, Korea

AF05 Surface plasmons and magneto-optical activity in hexagonal Ni anti-dot arrays

16:45 Emil Melander*, Evangelos Papaaoannou, Vassilios Kapakis and Bjorgvin Hjorvarsson, Department of Physics and Astronomy, Division of Materials Physics, Uppsala University, Sweden

AG: Arrays of magnetic nanostructures I

July 9 (Mon), 15:30~17:00, Room 203 (2F)

Chairperson: J. C. Wu (National Changhua University of Education, Taiwan)

- AG01** Magnetic nanodots induced novel magnetic phenomena

15:30 Jian Shen, Department of Physics, Fudan University, China

AG02 Magnetic properties of Fe-(Pt,Pd) thin films patterned by self-assembling of polystyrene nanospheres

16:00 Paola Tiberto¹, Luca Boarino¹, Gabriele Barrera¹, Federica Celegato¹, Marco Coisson¹, Natascia De Leo¹, Franco Vinali¹, Franca Albertini², Francesca Casoli² and P. Ranzieri², ¹Electromagnetics, INRIM, Italy; ²IMEM-CNR, Italy

AG03 Position dependence of vortex core oscillation in polygonal nanomagnets

16:15 Satoshi Yakata¹, Masahiko Miyata², Kohei Kiseki³, Hirofumi Wada² and Takashi Kimura^{1*}, ¹INAMORI Frontier Research Center, Kyushu University, Japan; ²Department of Physics, Kyushu University, Japan; ³Department of Electronics, Kyushu University, Japan

AG04 Huge magnetic anisotropy and coercivity in Fe island and atomic wire on

16:30 Takeshi Nakagawa^{1*}, Toshihiko Yokoyama¹, Torsten Methfessel², Sandra Perkert² and Hans-Joachim Elmers², ¹Institute for Molecular Science, Japan; ²Mainz University, Germany

AG05 Oscillation of critical fields in highly dense arrays of magnetic nanodisks

16:45 Alexey Ognev*, Maxim Stebly, Alexander Samardak and Ludmila Chebotkevich, Far Eastern Federal University, Institute of Automation and Control Processes FEBRAS, Russia

AH: Magnetic transducers in biomedicine

July 9 (Mon), 15:30~17:00, Room 204 (2F)

Chairperson: Cheol Gi Kim (Chungnam National University, Korea)

- AH01** Magnetic tools for molecular diagnosis

15:30 Joerg Schotter^{1*}, Astrid Shoshi¹, Stefan Schrittweis¹, Hubert Brueckl¹, Frank Ludwig², Katerina Soulantika³, Manfred Meindl⁴ and Christian Zilch⁵, ¹Health & Environment Department, AIT Austrian Institute of Technology, Austria; ²Institute of Electrical Measurement and Fundamental Electrical Engineering, TU Braunschweig, Germany; ³LPCNO, Université de Toulouse; INSA, UPS, LPCNO, and CNRS, France; ⁴Danube Mobile Communications Engineering (DMCE), Austria; ⁵Magna Diagnostics GmbH, Germany

AH02 Control of the living cell machinery with nanomagnets

16:00 Vitalii Zablotskii^{1*}, Alexandr Dejneka¹, Oleg Lunov², Lubomir Jastrabik¹, Tatiana Syrovets² and Thomas Simmet², ¹Applied Optics, Institute of Physics, Czech Republic; ²Institute of Pharmacology of Natural Products & Clinical Pharmacology, Ulm University, Germany

AH03 Bio-functionalized magnetic nanoparticles for in-vitro diagnosis of colorectal cancer

16:15 Charles Shieh-yueh Yang^{1*}, Herring-er Horng², Hong-chang Yang³, K.W. Huang⁴ and Chau-chung Wu⁵,
¹MagQu Co., Ltd., Taiwan; ²Institute of Electro-optical Science and Technology, National Taiwan Normal University, Taiwan; ³Department of Physics, National Taiwan University, Taiwan; ⁴Department of Surgery & Hepatitis Research Center, National Taiwan University Hospital, Taiwan; ⁵Departments of Internal Medicine and Primary Care Medicine, National Taiwan University, Taiwan

AH04 Multiplexing capabilities of multi-frequency magnetic ratchets

16:30 Benjamin B. Yellen^{1,2}, Yuyu Ouyang¹, Lu Gao², Mukarram A. Tahir², Daniel J. Lichtenwalner³ and Lawrence N. Virgin², ¹University of Michigan – Shanghai Jiao Tong University Joint Institute, Shanghai Jiao Tong University, Shanghai, P.R.C.; ²Duke University, Department of Mechanical Engineering and Materials Science, Center for Biologically Inspired Materials and Material Systems, Durham, NC 27708, USA; ³North Carolina State University, Department of Materials Science and Engineering, Raleigh, NC 27606, USA

AI: Semiconductor spintronics I - group IV materials

July 9 (Mon), 15:30~17:00, Room 205 (2F)

Chairperson: P. Crowell (University of Minnesota, USA)

AI01 Quantum control of single spins in diamond and silicon carbide

15:30 David D. Awschalom*, Center for Spintronics and Quantum Computation, University of California, USA

AI02 Dynamical spin injection into p-type Si using the spin pumping and spin transport at room temperature

16:00 Kazuki Kubo^{1*}, Eiji Shikoh¹, Kazuya Ando², Eiji Saitoh², Teruya Shinjo¹ and Masashi Shiraishi¹, ¹Graduate School of Eng. Sci., Osaka Univ., Japan; ²Inst. for Materials Research, Tohoku Univ., Japan

AI03 Studying the optical spin orientation in Ge by exploiting the spin filtering in Fe/MgO/Ge photodiodes

16:15 Christian Rinaldi*, Matteo Cantoni, Daniela Petti and Riccardo Bertacco, Department of Physics, CNISM and L NESS - Politecnico di Milano, Via Anzani 42, 22100, Italy

AI04 Transition from spin injection into interface states to the channel in n-Ge

16:30 Abhinav Jain¹, Juan-carlos Rojas¹, Murat Cubukcu¹, Julian Peiro², Jean-christophe Le Breton², Eric Prestat¹, Celine Vergnaud¹, Lamis Louhadj¹, Celine Portemont³, Clarisse Ducruet¹, Vincent Baltz¹, Andre Barski¹, Pascale Bayle-guillemaud¹, Laurent Vila¹, Jean-philippe Attane¹, Emmanuel Augendre⁴, Serge Gambarelli¹, Henri Jaffres², Jean-marie George² and Matthieu Jamet^{1*}, ¹INAC, Commissariat a l'Energie Atomique et aux Energies Alternatives, France; ²Unité Mixte de Physique CNRS-Thales, CNRS, France; ³CROCUS Technology, France; ⁴LETI, Commissariat a l'Energie Atomique et aux Energies Alternatives, France

AI05 Tunneling anisotropy in crystalline Si/MgO/Fe devices

16:45 Sandeep Sharma^{1*}, Aurelie Spiesser¹, Hidekazu Saito¹, Shinji Yuasa¹, Bart J. Van Wees² and Ron Jansen¹, ¹AIST Tsukuba, Japan; ²Zernike Institute for Advanced Materials, Univ. of Groningen, Netherlands

AJ: Crystalline, nanocrystalline and amorphous materials

July 9 (Mon), 15:30~17:00, Room 206 (2F)

Chairperson: Hwi-jun Kim (KITECH, Korea)

AJ01 Micromagnetic models in glass-coated microwires with circumferential anisotropy

15:30 Jacob Torrejon¹, Andre Thiaville^{1*}, Anne Lise Adenot Engelvin² and Manuel Vazquez³, ¹Laboratoire de Physique des Solides, Univ. Paris-Sud, CNRS, 91405 Orsay, France; ²CEA, DAM, Le Ripault, 37260 Monts, France; ³lnstituto de Ciencia des Materiales, CSIC, 28049 Madrid, Spain

AJ02 Manipulation of domain wall dynamics in microwires by transverse magnetic field

15:45 Juan Maria Blanco¹, Alexandr Chizhik², Valeria Rodionova³, Mihail Ipatov², Valentina Zhukova², Ahmed Talaat² and Arcady Zhukov^{4*}, ¹Dpto. de Fisica Aplicada, Basque Country University, UPV/EHU, Spain; ²Dpto. Fisica de Materiales, Fac. Quimicas, Basque Country University, UPV/EHU, Spain; ³Dpto. Fisica de Materiales, Fac. Quimicas and Faculty of Physics, Basque Country University, Moscow State University and Immanuel Kant Baltic Federal University, Spain; ⁴Dpto. Fisica de Materiales, Fac. Quimicas, Basque Country University, UPV/EHU, and Ikerbasque, Basque Foundation for Science, Spain

AJ03 Effect of process parameters on the microstrucutre and magnetic properties of electrodeposited

16:00 **FeCo thin films**
Wei Lu^{1*}, Chenchong He², Zhe Chen² and Biao Yan², ¹School of Materials Science and Engineering, Tongji University, Shanghai, China; ²Tongji University, China

AJ04 Structure and magnetic properties of FeCo alloy synthesized by a one-step polyol process

16:15 Prakash Karipoth, Arun Thirumurugan and Raphael Justin Joseyphus*, Department of Physics, National Institute of Technology, Tiruchirappalli 620 015, India

AJ05 Investigations of the magnetic and structural properties of a metalloid-free $\text{Co}_{80}\text{Zr}_{10}\text{V}_{10}$ amorphous

16:30 alloy
Eric Fleury^{1*}, Christian Meny² and Shashank N. Kane³, ¹Center for High Temperature Energy MAaterials, Korea Institute of Science and Technology, Seoul, Korea; ²UMR 7504 CNRS-UDS, Institut de Physique et Chimie des Materiaux de Strasbourg, 67034 Strasbourg, France; ³School of Physics, D. A. University, Khandwa road Campus, Indore 452001, India

AJ06 Magnetocaloric effect in Fe-Ni-Zr alloys prepared by rapidly quenched method

16:45 Nguyen Huy Dan^{1*}, Nguyen Huu Duc¹, Tran Dang Thanh¹, Nguyen Hai Yen¹, Pham Thi Thanh¹, Ngac An Bang², Do Thi Kim Anh², Phan The Long³ and Seong Cho Yu³, ¹Institute of Materials Science, 18 Hoang Quoc Viet, Hanoi, Viet Nam; ²Hanoi University of Science, 334 Nguyen Trai, Hanoi, Viet nam; ³Department of Physics, Chungbuk National University, Cheongju, Korea

BA: Superconductivity I - cuprate and other superconductors

July 9 (Mon), 17:20~18:50, Room101~3 (1F)

Chairperson: Hyoung Joon Choi (Yonsei University, Korea)

BA01 Nodal pocket revealed by quantum oscillations in an underdoped cuprate superconductor

17:20 Suchitra Sebastian¹, Gil Lonzarich¹, Neil Harrison², Moaz Altarawneh², Chuck Mielke², Ruixing Liang³, Doug Bonn³ and Walter Hardy³, ¹Department of Physics, University of Cambridge, United Kingdom; ²National High Magnetic Field Laboratory, Los Alamos National Laboratory, USA; ³Department of Physics, University of British Columbia, Canada

BA02 Low-Dimensional Superconductivity in δ -Doped SrTiO_3

17:50 Harold Hwang*, Stanford University & SLAC, USA

BA03 Resonant x-ray scattering from YBCO family

18:20 Matthieu Le Tacon^{1*}, Giacomo Ghiringhelli², Jiri Chaloupka¹, Marco Moretti Sala³, Santiago Blanco-canosa¹, Matteo Minola⁴, Giniyat Khalilullin¹, Thorsten Schmitt⁵, Lucio Braicovich⁶ and Bernhard Keimer¹, ¹Max Planck Institute For Solid State Research, Germany; ²CNR-SPIN, Dipartimento di Fisica, Politecnico di Milano, I-20133 Milano, Italy; ³European Synchrotron Research Facility, France; ⁴CNR-SPIN, Dipartimento di Fisica, Politecnico di Milano, Italy; ⁵Swiss Light Source, Switzerland; ⁶CNR-SPIN, Dipartimento di Fisica, Politecnico di Milano, I-20133 Milano, Italy

- BA04** Evolving electronic structures of high-*tc* cuprates studied by compton scattering
 18:35 Yoshiharu Sakurai^{1*}, Masayoshi Itou¹, Bernardo Barbiellini², Susmita Basak², Robert S. Markiewicz², Peter E. Mijnarends³, Shuichi Wakimoto⁴, Masaki Fujita⁵, Arun Bansil² and Kazuyoshi Yamada⁵. ¹*Japan Synchrotron Radiation Research Institute, Japan*; ²*Northeastern University, USA*; ³*Delft University of Technology, Netherlands*; ⁴*Japan Atomic Energy Agency, Japan*; ⁵*Tohoku University, Japan*

BB: Valence fluctuations I

July 9 (Mon), 17:20~18:50, Room 106~8 (1F)

Chairperson: Hisatomo Harima (Kobe University, Japan)

- BB01** Valence fluctuations and their possible role in stabilizing the correlated electron state in the system
 17:20 $\text{Ce}_{1-x}\text{Yb}_x\text{CoIn}_5$
 M. Brian Maple*, *Physics, University of California, San Diego, USA*

- BB02** Electronic structures of novel Ce-based systems via photoemission spectroscopy

17:50 J. -S. Kang*, *Department of Physics, The Catholic University of Korea, Korea*

- BB03** Valence state and spin state of Fe in $\text{SrFe}_{1-x}(\text{Sc},\text{Sn})_x\text{O}_3$ perovskites

18:20 Youssef Rizki¹, Jean-marie Le Breton^{1*}, Yohann Breard², Emeric Folcke¹ and Antoine Maignan². ¹*Groupe de Physique des Materiaux - UMR 6634, CNRS - Universite de Rouen, France*; ²*CRISMAT, UMR 6508 CNRS, ENSICAEN - Universite de Caen, France*

- BB04** Physics of cerus studied on a single crystal

18:35 Jan Fikacek^{1*}, Jiri Prchal¹, Jan Prokleska¹, Martin Misek¹, Ivana Cisarova², Jeroen Custers¹ and Vladimir Sechovsky¹, ¹*Department of Condensed Matter Physics, Charles University in Prague, Czech Republic*; ²*Department of Inorganic Chemistry, Charles University in Prague, Czech Republic***BC: Organic and molecular magnetism / Spin ladder**

July 9 (Mon), 17:20~18:50, Room 104~5 (1F)

Chairperson: Myriam Sarachik (CUNY, USA)

- BC01** Quantum effects in molecular single-ion magnets

17:20 Eugenio Coronado¹, J. Baldovi¹, S. Cardona¹, J. M. Clemente-juan¹, A. Gaita-arino¹, F. Luis² and M. J. Martinez-perez², ¹*Instituto Ciencia Molecular - Universidad Valencia, Spain*; ²*Instituto de Ciencia de Materiales de Aragon (ICMA), CSIC-Universidad de Zaragoza, Spain*

- BC02** Direct observation of a ferri-to-ferromagnetic transition in a fluoride-bridged 3d-4f molecular cluster

17:50 Jan Gui-hyon Dreiser^{1*}, Kasper Steen Pedersen², Cinthia Piamonteze¹, Stefano Rusponi³, Zaher Salman⁴, Md. Ehesan Ali⁵, Magnus Schau-magnussen², Christian Aa. Thuesen², Stergios Piligkos², Hoegni Weihe², Hannu Mutka⁶, Oliver Waldmann⁷, Peter Oppeneer⁸, Jesper Bendix², Frithjof Nolting¹ and Harald Brune³, ¹*Swiss Light Source, Paul Scherrer Institut, Switzerland*; ²*Department of Chemistry, Copenhagen University, Denmark*; ³*Institute of Condensed Matter Physics, Ecole Polytechnique Federale de Lausanne, Switzerland*; ⁴*Laboratory for Muon Spectroscopy, Paul Scherrer Institut, Switzerland*; ⁵*Center for Theoretical Chemistry, Ruhr-Universitaet Bochum, Germany*; ⁶*Institut Laue-Langevin, France*; ⁷*Physikalisches Institut, Universitaet Freiburg, Germany*; ⁸*Department of Physics and Astronomy, Uppsala University, Sweden*

- BC03** Magnetic -filed and angular dependence of magnetism in the triangular mott insulator

18:05 κ - $(\text{BEDT-TTF})_2\text{Cu}_2(\text{CN})_3$ investigated by ^{13}C NMR
 Kazuya Miyagawa, Kentaro Uneda and Kazushi Kanoda, *Department of Applied Physics, University of Tokyo, Japan*

- BC04** NMR study of quantum spin liquid in an organic triangular lattice antiferromagnet

18:20 EtMe₃Sb[Pd(dmit)₂]₂
 Satoru Maegawa^{1*}, Tetsuaki Itou¹, Eri Watanabe¹, Tatsuro Kubota¹, Masahide Nishiyama¹, Akira Oyamada¹, Kazuya Kubo² and Reizo Kato³, ¹*Graduate School of Human and Environmental Studies, Kyoto University, Japan*; ²*Condensed Molecular Materials Laboratory, RIKEN, Present address: Hokkaido University, Japan*; ³*Condensed Molecular Materials Laboratory, RIKEN, Japan*

- BC05** Wilson ratio of a Tomonaga-Luttinger liquid in a spin-1/2 Heisenberg ladder

18:35 Kostas Ninios¹, Tao Hong², Chisa Hotta³, Yasu Takano^{1*}, Manabe Takuya³, S N Herringer⁴, M M Turnbull⁵, C P Landee⁵ and Ho Bun Chan⁶, ¹*Physics, University of Florida, USA*; ²*Neutron Scattering Science Division, Oak Ridge National Laboratory, USA*; ³*Physics, Kyoto Sangyo University, Japan*; ⁴*Physics, Carlson School of Chemistry and Department of Physics, USA*; ⁵*Carlson School of Chemistry and Department of Physics, Clark University, USA*; ⁶*Physics, The Hong Kong University of Science and Technology, China***BD: Exchange bias**

July 9 (Mon), 17:20~18:50, Room 109~10 (1F)

Chairperson: G. Chern (National Chung-Cheng University, Taiwan)

- BD01** Exchange bias; where are the pinned uncompensated spins

17:20 Ivan K Schuller^{1*}, M. Erekhinsky², R. Morales³, I. V. Roshchin⁴, M. Kovylina⁵, A. Labarta⁵, X. Batlle⁵, M. Fitzsimmons⁶, S. Bar-ad⁷ and S. K. Sinha⁸, ¹*Physics, University of California, San Diego, USA*; ²*Physics and Center for Advanced Nanoscience, University of California San Diego, USA*; ³*University of the Basque Country and IKERBASQUE Basque Foundation for Science, Spain*; ⁴*Texas A & M University, USA*; ⁵*University of Barcelona, Spain*; ⁶*Los Alamos National Labs, USA*; ⁷*Tel Aviv University, Israel*; ⁸*University of California, San Diego, USA*

- BD02** Atomic diffusion in (Pt/Co)3/IrMn multilayers

17:50 Florent Letellier¹, Amjaad Zarefy¹, Jean-marie Le Breton^{1*}, Luc Lechevallier¹, Rodrigue Larde¹, Didier Blavette¹, Vincent Baltz², Bernard Rodmacq² and Bernard Dieny², ¹*Groupe de Physique des Materiaux - UMR 6634, CNRS - Universite de Rouen, France*; ²*SPINTEC, URA 2512 CNRS/CEA, CEA Grenoble, France*

- BD03** Magnetic properties of ferromagnetic-antiferromagnetic bi-layers with different spin configuration

18:05 Wondong Kim^{1*}, Chanyong Hwang¹, Z. Q. Qiu² and J. Y. Kim³, ¹*Korea Research Institute of Standards and Science, Korea*; ²*Physics Department, University of California at Berkeley, USA*; ³*Pohang Accelerator Laboratory, Korea*

- BD04** Tuning exchange bias in Ni/FeF₂ heterostructures using antidot arrays

18:20 Miroslava Kovylina¹, Rafael Morales², M. Erekhinsky³, Javier E. Villegas⁴, Ivan K. Schuller³, Amilcar Labarta¹ and Xavier Batlle^{1*}, ¹*Departament Fisica Fonamental and Institut de Nanociencia i Nanotecnologia, Universitat de Barcelona, Barcelona, Catalonia, Spain*; ²*University of the Basque Country & IKERBASQUE, Basque Foundation for Science, Bilbao, Spain*; ³*Physics Department, University of California San Diego, La Jolla CA, USA*; ⁴*Unité Mixte de Physique CNRS/Thales, Université Paris Sud, Orsay, France*

- BD05** Correlation between training effect and hysteretic behavior of angular dependence of exchange biasing in polycrystalline ferromagnet/antiferromagnet bilayers

18:35 Zhong Shi¹, Shiming Zhou^{1*}, Tie Ren Gao² and Xue Peng Qiu³, ¹*Department of Physics, Tongji University, China*; ²*Department of Physics, Fudan University, China*; ³*Department of Physics, Fudan University, China*

BE: Magnetic semiconductor

July 9 (Mon), 17:20~18:50, Room 201 (2F)

Chairperson: S. M. Yusuf (Bhabha Atomic Research Centre, India)

BE01 Interlayer exchange coupling in ferromagnetic semiconductor GaMnAs-based multilayers

17:20 Sanghoon Lee*, Korea University, Korea

BE02 Experimental probing of the magnetic order in ultrathin (Ga,Mn)As

17:50 M. Sawicki¹, D. Chiba², O. Proselkov³, A. Korbecka⁴, Y. Nishitani⁵, F. Matsukura⁶, J. A. Majewski⁴, J. Sadowski⁷, T. Dietl⁸ and H. Ohno⁶, ¹Institute of Physics, Warsaw, Poland, and RIEC, Tohoku University, Sendai, Japan, Poland; ²Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan; ³Institute of Physics, Polish Academy of Sciences, Warsaw, Poland; ⁴Institute of Theoretical Physics, University of Warsaw, Poland; ⁵Laboratory for Nanoelectronics and Spintronics, RIEC, Tohoku University, Sendai, Japan; ⁶Laboratory for Nanoelectronics and Spintronics, and CSIS, Tohoku University, Sendai, Japan; ⁷Institute of Physics, Warsaw, Poland, and MAX-Lab, Lund University, Lund, Sweden; ⁸Institute of Physics, Warsaw, and Institute of Theoretical Physics, University of Warsaw, Poland

BE03 Origin of ferromagnetism in Ga_{1-x}Mn_xN

18:05 Thibaut Devillers^{1*}, Maciej Sawicki², Wiktor Stefanowicz², Sylwia Dobkowska², Bogdan Faina¹, Andrea Navarro-quezada¹, Tian Li¹, Andreas Grois¹, Mauro Rovezzi³, Tomasz Dietl² and Alberta Bonanni¹, ¹Institute for Semiconductor and Solid State Phys., Johannes Kepler University, Austria; ²Institute of Physics, Polish Academy of Sciences, Warsaw, Poland; ³European Synchrotron Radiation Facility, Grenoble, France

BE04 The effects of non-magnetic dopant on semiconductor materials

Withdrawn Caihong Zhang and Dickon H.I. Ng, Physics Department, The Chinese University of HongKong, China

BE05 I-Mn-V room temperature antiferromagnetic semiconductors

18:20 Xavier Martí^{1*}, Peter Wadley², Helena Reichlova², Premysl Beran³, Olya Stelmakhovich⁴, Ineke Wijnheijmer⁵, Paul Koenraad⁶, Frantisek Maca², Jan Masek², Klara Uhlirova¹, Vit Novak² and Tomas Jungwirth², ¹Condensed Matter Physics, Charles University in Prague, Czech Republic; ²Institute of Physics ASCR, Czech Republic; ³Nuclear Physics Institute ASCR, Czech Republic; ⁴Charles University in Prague, Czech Republic; ⁵COBRA Inter-University Research Institute, Netherlands; ⁶COBRA, Inter-University Research Institute, Netherlands

BF: 3d transition metal oxides

July 9 (Mon), 17:20~18:50, Room 202 (2F)

Chairperson: Sang-Wook Cheong (Rutgers University, USA)

BF01 The verway phase of magnetite - a long-running mystery in magnetism

17:20 J Paul Attfield, University of Edinburgh, United Kingdom

BF02 Possible link of a structurally driven spin flip transition and the insulator-metal transition in the perovskite La_{1-x}Ba_xCoO₃

17:50 Despina Louca and Peng Tong, Department of Physics, University of Virginia, USA

BF03 Slow magnetic crossover in the frustrated magnet Ca₃Co₂O₆

18:05 Stefano Agrestini^{1*}, Martin R Lees², Catherine L Fleck², Oleg A Petrenko², Laurent C Chapon³, Claudio Mazzoli⁴ and Alessandro Bombardi⁵, ¹Max-Planck Institut CPfS, Dresden, Germany; ²Department of Physics, University of Warwick, Coventry, United Kingdom; ³ILL, Grenoble, France; ⁴Dipartimento di Fisica, Politecnico di Milano, Milano, Italy; ⁵Diamond Light Source, Didcot, United Kingdom

BF04 Incommensurate magnetic states in itinerant systems

18:20 Marat Timirgazin and Anatoly Arzhnikov, Physical-Technical Institute of Ural Branch of Russian Academy of Sciences, Russia

BF05 Canted spins of Mn₃O₄ investigated by 55Mn²⁺ and 55Mn³⁺ nuclear magnetic resonance in magnetic field

18:35 Changsoo Kim, Jeong Hyun Shim, Euna Jo, Byeongki Kang, Sangil Kwon and Soonchil Lee*, Department of Physics, KAIST, 291 Daehak-ro, Yuseong-gu, Daejeon 305-701, Korea

BG: Energy assisted magnetic recording

July 9 (Mon), 17:20~18:50, Room 203 (2F)

Chairperson: Katsuji Nakagawa (Nihon University, Japan)

BG01 L10 ordered FePt based granular films for thermally assisted magnetic recording

17:20 Y K Takahashi*, B Varaprasad, C Min, L Zhang and K Hono, National Institute for Materials Science, Japan

BG02 Nanogranular FePt films for thermally assisted recording

17:50 Tiffany Santos, O. Mosendz, J. Reiner, S. Pisana, G. Parker and D. Weller, Hitachi GST, USA

BG03 Single crystalline isolated grains of L10-ordered FeCuPt prepared by combination of rapid thermal annealing with rapid cooling and additional annealing

Tatsuya Ubana¹, Arata Tsukamoto^{2*} and Akiyoshi Itoh², ¹Graduate School of Science and Technology, Nihon university, Japan; ²Collage of Science and Technology, Nihon university, Japan

BG04 Oscillation characteristics of spin-torque oscillator calculated using integrated simulator with spt writer

18:35 Kazuetsu Yoshida¹, Souta Asaka², Takuya Hashimoto² and Yasushi Kanai³, ¹Information and Communications Engineering, Kogakuin University, Japan; ²Graduate school of electrical engineering and electronics, Kogakuin University, Japan; ³Information and Electronics Engineering, Niigata Institute of Technology, Japan

BH: Interdisciplinary technology

July 9 (Mon), 17:20~18:50, Room 204 (2F)

Chairperson: Benjamin B. Yellen (Duke University, USA)

BH01 Magnetic nanotechnology for cancer treatment

17:20 Thanos Mitrelias¹, Valerii Orel², Marina Tselepi³, Crispin Barnes⁴, I Schepotin², A Romanov² and A Shevchenko⁵, ¹Cavendish Laboratory, University of Cambridge and Cavendish NanoTherapeutics Ltd, United Kingdom; ²National Cancer Institute, Kiev, Ukraine; ³Cavendish Laboratory, University of Cambridge and Cavendish NanoTherapeutics, United Kingdom; ⁴Cavendish Laboratory, University of Cambridge, United Kingdom; ⁵Kurdyumov Institute for Metal Physics, Kiev, Ukraine

BH02 The low magnetic field effect of sanals of primo vascular system

17:35 Sang-suk Lee¹, Kwang-sup Soh², Min-suk Rho³, Yeong-min Yoo⁴, Jong-gu Choi⁵, Sung-ah Shim¹, Young-il No¹, Jun-yeong Shim¹ and Ran-hyang Kim¹, ¹Oriental Biomedical Engineering, Sangji University, Korea; ²Nano-Primo Research Center, Seoul National University, Korea; ³Sangji University, Korea; ⁴Biomedical Engineering, Yonsei University, Korea; ⁵Eastern-Western Biomedical Engineering, Sangji University, Korea

BH03 Magnetic targeting of mesenchymal stem cells in the spinal cord

17:50 Vaclav Vanecek¹, Jiri Ruzicka¹, Serhiy Forostik¹, Michal Babic², Vit Herynek³, Alexandr Dejneka⁴, Vitalii Zablotskii^{4*}, Sarka Kubinova¹, Pavla Jendelova¹ and Eva Sykova¹, ¹Institute of Experimental Medicine, Czech Republic; ²Institute of Macromolecular Chemistry, Czech Republic; ³MR-Unit, Institute for Clinical and Experimental Medicine, Czech Republic; ⁴Institute of Physics, Czech Republic

BH04 Tilted bianchi type - I magnetised viscous fluid cosmological model

18:05 Subrata Kumar Sahu, Mathematics, Lingayas University, India

BH05 Growth of highly uniform graphene for spintronic applications

18:20 Shiro Entani, Yoshihiro Matsumoto, Manabu Ohtomo, Pavel V Avramov, Hiroshi Naramoto and Seiji Sakai, Advanced Science Research Center, Japan Atomic Energy Agency, Japan

BH06 Depth-resolved XMCD spectroscopy on single-layer graphene / Ni structure

18:35 Yoshihiro Matsumoto^{1*}, Shiro Entani¹, Manabu Ohtomo¹, Pavel V Avramov¹, Hiroshi Naramoto¹, Kenta Amemiya² and Seiji Sakai¹, ¹Advanced Science Research Center, Japan Atomic Energy Agency, Japan; ²Institute of Materials Structure Science, High Energy Accelerator Research Organization, Japan

BI: STT MRAM and magnetic logic

July 9 (Mon), 17:20~18:50, Room 205 (2F)

Chairperson: J. Akerman (University of Gothenburg, Sweden)

BI01 Magnetoresistance and spin-transfer torque in magnetic tunnel junctions

17:20 Shinji Yuasa^{1,2*}, Kay Yakushiji¹, Akio Fukushima¹, Hitoshi Kubota¹, Takayuki Nozaki¹ and Koji Ando¹, ¹Spintronics Research Center, National Institute of Advanced Industrial Science and technology (AIST), Japan; ²Distinguished Lecturer of IEEE Magnetic Society, Japan

BI02 MTJ based non volatile logic for ultimate power management

17:50 Tetsuo Endoh, Takashi Ohsawa, Takahiro Hanyu and Hideo Ohno, Tohoku University, Japan

BI03 Spin gating a transistor and spintronics with antiferromagnets

18:20 Tomas Jungwirth, Institute of Physics ASCR, v.v.i., Prague and University of Nottingham, Czech Republic

BJ: Ferrites, garnets and other materials

July 9 (Mon), 17:20~18:50, Room 206 (2F)

Chairperson: Hsing-I Hsiang (National Cheng Kung University, Taiwan)

BJ01 Co₂y-nicuzn ferrite composites with high permeability

17:20 Hsing-i Hsiang* and Po-wen Cheng, Resources Engineering, National Cheng Kung University, Taiwan

BJ02 Investigation of Fe₂YZ (Y=Ni, Cu; Z=Sn, Ga): The Heusler compounds with tetragonal structure

17:35 Margarit Gjoka¹, Dimitris G Niarchos¹, Eamon Devlin¹ and George Hadjipanayis², ¹Institute of Materials Science, NCSR DEMOKRITOS, Greece; ²Physics and Astronomy, University of Delaware, USA

BJ03 Crystallite growth kinetics and microwave properties of Fe-Ti substituted (La,Sr)MnO₃ prepared by mechanical alloying

Nastiti Elwindari, Hinu Pramuji and Azwar Manaf*, Department of Physics, Faculty of Natural Sciences Universitas Indonesia, Indonesia

BJ04 Electromagnetic characteristics of Cu substituted Co₂Z-type ferrites Ba₃Co_{2-x}Cu_xFe₂₄O₄₁

17:50 Ji Yeon Song and Young Ho Han*, Materials Engineering, Sungkyunkwan University, Korea

BJ05 Electrical and magnetic properties of nickel and magnesium co-substituted lithium ferrites

18:05 Ramesh M.¹, Rao G.S.N.², Parvatheeswara Rao B.^{1*} and Samatha K.¹, ¹Physics Department, Andhra University, India; ²Physics Department, Dr. V.S. Krishna College, Visakhapatnam, India

BJ06 Resistivity and complex permeability dependence on isochronal recovery in polycrystalline

18:20 yttrium iron garnet (Y₃Fe₅O₁₂)
Ismayadi Ismail¹, Mansor Hashim^{1*} and Nor Hapishah Abdullah², ¹Advanced Materials and Nanotechnology Laboratory, Universiti Putra Malaysia, Malaysia; ²Physics Department, Faculty of Science, Universiti Putra Malaysia, Malaysia

CA: Superconductivity II - cuprate and other superconductors

July 10 (Tue), 11:00~12:30, Room101~3 (1F)

Chairperson: Michael Sutherland (University of Cambridge, UK)

CA01 Spin and charge excitations in cuprates and iron pnictides revealed by simulated resonant inelastic x-ray scattering

11:00 Takami Tohyama¹, Eiji Kaneshita² and Kenji Tsutsui³, ¹Yukawa Institute for Theoretical Physics, Kyoto University, Japan; ²Sendai National College of Technology, Japan; ³Synchrotron Radiation Research Center, Japan Atomic Energy Agency, Japan

CA02 Discovery of fermi surface near anti-node in pseudogap phase of the under-doped Bi-2212

11:30 Chung Koo Kim¹, Jhinhwan Lee², Kazuhiro Fujita³, Hiroshi Eisaki⁴, Shinichi Uchida⁵, J. C. Seamus Davis⁶ and Jinho Lee^{7*}, ¹BNL/Cornell, USA; ²KAIST, Korea; ³Cornell, USA; ⁴AIST, Japan; ⁵Tokyo U., Japan; ⁶Cornell/BNL, USA; ⁷BNL/SNU, Korea

CA03 Feedback effect on high-energy magnetic fluctuations in the model high-temperature superconductor HgBa₂CuO_{4+d}

12:00 Yuan Li^{1*}, Mathieu Le Tacon¹, Mohammed Bakr¹, Damien Terrade¹, Dirk Manske¹, Rudi Hackl², Lina Ji³, Mun K. Chan³, Neven Barisic³, Xudong Zhao³, Martin Greven³ and Bernhard Keimer¹, ¹Max Planck Institute for Solid State Research, Germany; ²Walther Meissner Institute, Bavarian Academy of Sciences, Germany; ³University of Minnesota, USA

CB: Magnetic nanoparticles I

July 10 (Tue), 11:00~12:30, Room 106~8 (1F)

Chairperson: Young K. Kim (Korea University, Korea)

CB01 Ferromagnetism of Au nanoparticle assemblies: Role of chemical and structural parameters in magnetic properties

11:00 Tae Hee Kim^{1*}, Eun Ju Her¹, Yu Jeong Bae¹, Seung Hyo Ko¹, Seung Ho Moon², Jung-tak Jang², Jinwoo Cheon² and Eisuke Ito³, ¹Physics Department, Ewha Womans University, Korea; ²Chemistry Department, Yonsei University, Korea; ³Flucto-Order Functions Research Team, RIKEN Advanced Science Institute, Japan

CB02 Air-stable Fe@Au nanoparticles synthesized by the microemulsion's method

11:30 J. Rivas^{1*}, E. Iglesias-silva², J. M. Vilas-vilela³, L. M. Leon³ and M. A. Lopez-quintela⁴, ¹INL-International Iberian Nanotechnology Laboratory; University of Santiago de Compostela, Spain; ²Universiy of Santiago de Compostela; University of the Basque Country, Spain; ³University of the Basque Country, Spain; ⁴University of Santiago de Compostela, Spain

- CB03 Numerical study of the exchange bias effects in assemblies of core/shell nanoparticles**
 11:45 Kalliopi Trohidou*, Marianna Vasilakaki and George Margaris, *Institute of Materials Science, National Center for Scientific Research 'Demokritos', Greece*
- CB04 Exploring the effect of Co doping in the magnetic and magneto-optical properties of fine maghemite nanoparticles**
 12:00 Elvira Fantechi¹, Giulio Campo¹, Daniela Carta², Anna Corrias², Cesar De Julian Fernandez^{3*}, Claudia Innocenti¹, Francesco Pineider⁴, Francesco Rugi¹ and Claudio Sangregorio³, ¹INSTM and University of Florence, Italy; ²INSTM and Department of Chemical Sciences, Universita di Cagliari, Italy; ³CNR - ISTM Milano @ INSTM Udr Florence, Italy; ⁴CNR - ISTM Padova @ INSTM Udr Florence, Italy
- CB05 Novel technique for self assembly of magnetic nanoparticles by cluster beam deposition**
 12:15 Ozan Akdogan^{1*}, Wanfeng Li², George Hadjipanayis² and David Sellmyer³, ¹University of Delaware, USA; ²Physics and Astronomy, University of Delaware, USA; ³Physics and Astronomy, University of Nebraska, USA

CC: Spin liquid / Spin ice

July 10 (Tue), 11:00~12:30, Room 104~5 (1F)

Chairperson: Jeroen van den Brink (IFW Dresden, Germany)

- CC01 Magnetictiy and magnetic monopoles in spin ice**
 11:00 Steven Bramwell, *London Centre for Nanotechnology and Department of Physics and Astronomy, University College London, United Kingdom*
- CC02 Recent developments in quantum spin liquid candidates**
 11:30 Luis Balicas*, *Condensed Matter Sciences, NHMFL, USA*
- CC03 Static and dynamic properties of a strong-leg spin ladder**
 11:45 David Jan Schmidiger¹, Pierre Bouillot², Sebastian Muhlbauer¹, Severian Gvasaliya¹, Georg Ehlers³, Corinna Kollath⁴, Thierry Giamarchi² and Andrey Zheludev^{1*}, ¹Neutron Scattering and Magnetism, Laboratory for Solid State Physics, ETH Zurich, Switzerland; ²DPMC-MaNEP, University of Geneva, CH-1211, Geneva, Switzerland; ³Neutron Scattering Science Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee 37831-6475, USA; ⁴DPT-MaNEP, University of Geneva, CH-1211, Geneva, Switzerland
- CC04 Nonstationary processes in the spin-ice materials Dy₂Ti₂O₇ and Ho₂Ti₂O₇, investigated by ultrasound**
 12:00 S. Zherlitsyn^{1*}, S. Erfanifam¹, J. Wosnitza¹, R. Moessner², O. A. Petrenko³, G. Balakrishnan³ and A. A. Zvyagin⁴, ¹Hochfeld-Magnetlabor Dresden, Helmholtz-Zentrum Dresden-Rossendorf, Germany; ²Max-Planck Institut fuer Physik komplexer Systeme, Germany; ³Department of Physics, University of Warwick, United Kingdom; ⁴B. I. Verkin Institute for Low Temperature Physics and Engineering, Ukraine
- CC05 Study of low-temperature magnetism in a pr-based pyrochlore magnet**
 12:15 Kenta Kimura^{1*}, Satoru Nakatsuji¹, Agung Nugroho², Yoshitomo Karaki³, Kazuyuki Matsuhira⁴, Yasuyuki Shimura¹ and Toshiro Sakakibara¹, ¹ISSP, Univ. of Tokyo, Japan; ²Bandung Inst. Tech, Indonesia; ³Ryukyu Univ., Japan; ⁴Kyusyu Inst. Tech., Japan

CD: Heavy fermions I

July 10 (Tue), 11:00~12:30, Room 109~10 (1F)

Chairperson: Tuson Park (Sungkyunkwan University, Korea)

- CD01 A materials-based global phase diagram for heavy-fermion quantum criticality**
 11:00 S. Paschen^{1*}, J. Custers¹, J. Larrea J.¹, K. - A. Lorenzer¹, M. Mueller¹, A. Prokofiev¹, A. Sidorenko¹, H. Winkler¹, A. M. Strydom², Y. Shimura³, T. Sakakibara³, R. Yu⁴ and Q. Si⁴, ¹Institute of Solid State Physics, Vienna University of Technology, Austria; ²Physics Department, University of Johannesburg, South Africa; ³Institute for Solid State Physics, University of Tokyo, Japan; ⁴Department of Physics and Astronomy, Rice University, USA
- CD02 Anomalous metals with strong valence / orbital fluctuations**
 11:30 Satoru Nakatsuji, Yosuke Matsumoto, Kentaro Kuga, Eoin T. C. O' Farrell and Akito Sakai, *Institute for Solid State Physics, University of Tokyo, Japan*
- CD03 Ce-based iron-pnictides: Intermediate valence and heavy-fermion behavior versus magnetism and superconductivity**
 12:00 Matthias Holder¹, Denis V. Vyalikh¹, Steffen Danzenbacher¹, Anton Jesche², Cornelius Krellner², Christoph Geibel², Pierre Lombardo³, Roland Hayn³, Rolf Follath⁴, Serguei L. Molodtsov⁵ and Clemens Laubschat^{1*}, ¹Institut für Festkörperphysik, Technische Universität Dresden, D-01062 Dresden, Germany; ²Max-Planck-Institut für Chemische Physik fester Stoffe, D-01187 Dresden, Germany; ³Institut Materiaux, Microelectronique et Nanosciences de Provence, FR-13397 Marseille, France; ⁴Helmholtz-Zentrum Berlin, Elektronenspeicherring BESSY II, D-12489 Berlin, Germany; ⁵European XFEL GmbH, D-22671 Hamburg, Germany
- CD04 Observation of the quantum critical point in CeRhSi₃ with the muon spin rotation technique**
 12:15 Nikola Egetenmeyer^{1*}, Jorge L. Gavilano¹, Alexander Maisuradze², Alexander Maisuradze³, Simon Gerber¹, Michel Kenzelmann⁴, Gabriel Seyfarth⁵, Daniel Andreica⁶, Alexandre Desilets-benoit⁷, Andrea D. Bianchi⁷, Christopher Baines², Rustem Khasanov² and Douglas E. MacLaughlin⁸, ¹Laboratory for Neutron Scattering, Paul Scherrer Institut, 5232 Villigen PSI, Switzerland; ²Laboratory for Muon Spin Spectroscopy, Paul Scherrer Institut, 5232 Villigen PSI, Switzerland; ³Physik-Institut, Universität Zurich, 8057 Zurich, Switzerland; ⁴Laboratory for Developments and Methods, Paul Scherrer Institut, 5232 Villigen PSI, Switzerland; ⁵Departement de physique de la matiere condensee, Universite de Geneve, 1211 Geneva, Switzerland; ⁶Faculty of Physics, Babes-Bolyai University, 400084 Cluj-Napoca, Romania; ⁷Departement de Physique, Universite de Montreal, Montreal H3C 3J7, Canada; ⁸Department of Physics and Astronomy, University of California, Riverside, USA
- CE: Spin transfer oscillators**
 July 10 (Tue), 11:00~12:30, Room 201 (2F)
- Chairperson: J. Grollier (CNRS, France)

CE01 Self-modulation in perpendicular anisotropy Co/Ni based spin-torque oscillators
 11:00 Johan Akerman, *Physics Department, University of Gothenburg, Sweden*

CE02 Magnetization tilt angles in [Pd/Co]/Cu/[Co/Pd]-NiFe pseudo spin valves
 11:15 Anh T. N Nguyen¹, Sunjea Chung¹, S. M. Mohseni¹, R. K. Dumas² and Johan Akerman^{2*}, ¹Materials Physics, KTH, Royal Institute of Technology, Sweden; ²Department of Physics, University of Gothenburg, 412 96 Gothenburg, Sweden

CE03 Temperature dependence of microwave voltage emission associated to spin-transfer induced vortex oscillations in magnetic tunnel junctions
 11:30 Paolo Bortolotti^{1*}, A. Dussaux¹, J. Grollier¹, V. Cros¹, A. Fukushima², H. Kubota², K. Yakushiji², S. Yuasa², K. Ando² and A. Fert¹, ¹Unité Mixte de Physique CNRS/Thales, France; ²National Institute of Advanced Industrial Science and Technology (AIST), Japan

- CE04** Zero external-field microwave oscillations in MgO magnetic tunnel junctions
 11:45 Jae Hyun Park¹, Seung-young Park², Byoung-chul Min^{1*}, Jung-hwan Moon³, Kyung-jin Lee³, Young-hun Jo² and Kyung-ho Shin¹, ¹Korea Institute of Science and Technology, Korea; ²Korea Basic Science Institute, Korea; ³Korea University, Korea
- CE05** NCMR based spin-torque microwave generator and detector with high signal purity
 12:00 Yuuki Kozono^{1*}, Yoshihito Okutomi¹, Kohsaku Miyake¹, Susumu Hashimoto², Hitoshi Iwasaki² and Masashi Sahashi¹, ¹Department of Electronic Engineering, Tohoku University, Japan; ²Corporate Research and Development Center, Toshiba Corporation, Japan
- CE06** Conditions for zero field spin transfer induced vortex oscillations with a perpendicular spin polarizer
 12:15 E. Grimaldi^{1*}, A. Dussaux¹, B. Salles², J. Grollier¹, A. Fukushima², H. Kubota², K. Yakushiji², S. Yuasa², V. Cros¹ and A. Fert¹, ¹Unité Mixte de Physique CNRS/Thales, 1 Av Fresnel, Campus de l'Ecole Polytechnique, 91767 Palaiseau, France; ²National Institute of Advanced Industrial Science and Technology (AIST), 1-1-1 Umezono, Tsukuba, Japan

CF: Actinides and lanthanides

July 10 (Tue), 11:00~12:30, Room 202 (2F)

Chairperson: Vitalij Pecharsky (Iowa State University, USA)

- CF01** Spin-orbital short-range order on a honeycomb based lattice
 11:00 C. Broholm^{1*}, S. Nakatsuji², H. Sawa³, M. Hagiwara⁴ and F. Bridges⁵, ¹Institute for Quantum Matter and Department of Physics and Astronomy, Johns Hopkins University, USA; ²Institute for Solid State Physics, University of Tokyo, Japan; ³Department of Applied Physics, Graduate School of Engineering Nagoya University, Japan; ⁴KYOKUGEN, Osaka University, Japan; ⁵Physics Department, University of California, Santa Cruz, USA
- CF02** Quadrupolar waves in uranium dioxide
 11:30 Paolo Santini, University of Parma, Italy
- CF03** Magnon gap formation and charge density wave effect on thermoelectric properties in SmNiC₂ compound
 12:00 Jin-hee Kim¹, Gyeong Im Min², Jong-soo Rhyee¹ and Yong Seung Kwon^{2*}, ¹Applied Physics, KyungHee University, Korea; ²Physics, Sungkyunkwan University, Korea
- CF04** Effect of R ion size variance on spin and orbital order in RVO₃ (R=rare earth and Y)
 12:15 S. Miyasaka^{1*}, R. Fukuta¹, K. Hemmi¹, N. Sasaki¹, S. Tajima¹, D. Kawana², K. Ikeuchi², Y. Yamasaki², A. Nakao², H. Nakao², R. Kumai², Y. Murakami² and K. Iwasa³, ¹Department of Physics, Osaka University, Japan; ²KEK-PF/CMRC, Japan; ³Department of Physics, Tohoku University, Japan

CG: Semiconductor spintronics II - group III~V materials

July 10 (Tue), 11:00~12:30, Room 203 (2F)

Chairperson: R. Jansen (National Institute of Advanced Industrial Science and Technology (AIST), Japan)

- CG01** Spin Hall effects in n-GaAs near the metal-insulator transition
 11:00 Paul A Crowell, School of Physics and Astronomy, University of Minnesota, USA
- CG02** The effect of an inhomogeneous interface on the transport properties across Fe/GaAs(001) films
 11:30 Luke Fleet¹, K. Yoshida², H. Kobayashi³, Y. Kaneko³, S. Matsuzaka³, Y. Ohno³, H. Ohno³, S. Honda⁴, J. Inoue² and A. Horihata^{1*}, ¹The University of York, United Kingdom; ²Nagoya University, Japan; ³Tohoku University, Japan; ⁴University of Tsukuba, Japan

- CG03** Spin accumulation and decoherence mechanisms at ferromagnetic/tunnel barrier/semiconductor interfaces
 11:45 Julian Peiro¹, Jean-christophe Lebreton¹, Cyrille Deranlot¹, Aristide Lemaitre², Abhinav Jain³, Celine Vergnaud³, Matthieu Jamet³, Henri Jaffres¹ and Jean-marie George^{1*}, ¹Unité Mixte de Physique CNRS/Thales, Campus Polytechnique, 1 av. Augustin Fresnel, 91767 Palaiseau, France; ²CNRS-Laboratoire de Photonique et Nanostructures, route de Nozay, 91460 Marcoussis, France; ³INAC/SP2M, CEA-Université Joseph Fourier, 17 rue des Martyrs, 38054 Grenoble, France
- CG04** Electrical spin accumulation and detection in Fe₃O₄/MgO/GaAs systems
 12:00 Shwetha G. Bhat*, Ciji Mathai and Anil P. S. Kumar, Department of Physics, Indian Institute of Science, Bangalore, India
- CG05** Spin relaxation in defect-free InGaN/GaN quantum wells
 12:15 Animesh Banerjee^{1*}, Fatih Dogan², Aurelien Manchon² and Pallab Bhattacharya¹, ¹Department of Electrical Engineering and Computer Science, University of Michigan, Ann Arbor, MI 48109-2122, USA; ²Division of Physical Science and Engineering, King Abdullah University of Science and Technology, Thuwal 23955, Saudi Arabia

CH: Heusler alloys etc

July 10 (Tue), 11:00~12:30, Room 204 (2F)

Chairperson: Joo Yull Rhee (Sungkyunkwan University, Korea)

- CH01** Magnetic, magnetotransport and magnetocaloric properties of quaternary Ni-Mn-In-Z Heusler alloys
 11:00 Alexander Kazakov¹, Valerii Prudnikov¹, Igor Rodionov¹, Denis Mettus¹, Nikolai Perov¹, Alexander Granovsky^{1*}, Arcady Zhukov², Julian Gonzalez², Igor Dubenko³, Arjun Kumar Pathak³, Tapas Samanta³, Shane Stadler⁴, Philip Adam⁴, Joseph Prestigiacomo⁴ and Naushad Ali³, ¹Lomonosov Moscow State University, Russia; ²Universidad del País Vasco, Spain; ³Southern Illinois University, Carbondale, USA; ⁴Louisiana State University, USA
- CH02** Composition dependence of magnetic properties in tetragonal Heusler-like Mn-Ga alloy films with large perpendicular magnetic anisotropy
 11:30 Shigemi Mizukami^{1*}, Takahide Kubota¹, Qinli Ma¹, Zhang Xianmin¹, Hiroshi Naganuma², Mikihiko Oogane², Akimasa Sakuma², Yasuo Ando² and Terunobu Miyazaki¹, ¹WPI-Advanced Institute for Materials Research, Tohoku University, Japan; ²Department of Applied Physics, Graduate School of Engineering, Tohoku University, Japan
- CH03** Optical spectroscopy of half-metallic and thermoelectric Heusler compounds
 11:45 Jaroslav Hamrle^{1*}, Dominik Legut¹, Kamil Postava¹, Jaromir Pistora¹, Enrique Vilanova², Mirko Emmel², Gerhard Jakob², Siham Ouardi³, Gerhard H. Fecher³ and Claudia Felser³, ¹Department of Physics and Nanotechnology Centre, VSB - Technical University of Ostrava, Czech Republic; ²Institute of Physics, Mainz University, Germany; ³Institute of Inorganic Chemistry and Analytical Chemistry, Mainz University, Germany
- CH04** Verification of band structure calculations for the Heusler compound Co₂MnGa
 12:00 Michaela Kolbe¹, Stanislav Chadov², Elena Arbelo Jorge¹, Claudia Felser², Hans-Joachim Elmers¹, Gerd Schonhense¹, Mathias Klau¹ and Martin Jourdan^{1*}, ¹Institute of Physics, University Mainz, Germany; ²CA, Max-Planck-Institut für Chemische Physik fester Stoffe, Germany
- CH05** Field-driven domain-wall ratchet shift register
 12:15 Jeroen Franken*, Henk Swagten and Bert Koopmans, Department of Applied Physics, Eindhoven University of Technology, Netherlands

C1: Multiferroics II - scattering

July 10 (Tue), 11:00~12:30, Room 205 (2F)

Chairperson: Jae-hoon Park (POSTECH, Korea)

C101 Solitonic lattice and Yukawa forces in the rare earth orthoferrite TbFeO₃11:00 Sergey Artyukhin¹, Maxim Mostovoy¹ and Dimitrios Argyriou^{2*}, ¹Zernike Institute for Advanced Materials, University of Groningen, Netherlands; ²European Spallation Source ESS AB, Sweden**C102 Ferroelectricity from magnetic helicity in ferroaxial crystals**

11:30 Laurent C Chapon, Institut Laue-Langevin, France

C103 Chemical-doping control of magnetoelectric multiferroics12:00 Jae-ho Chung^{1*}, Young-sang Song¹, Hak-bong Lee¹, Hun Chang¹ and Kee Hoon Kim², ¹Dept. of Physics, Korea University, Korea; ²Dept. of Physics & Astronomy, Seoul National University, Korea**C104 Magnetic x-ray scattering studies on multiferroic SmFe₃(BO₃)₄**12:15 Dinesh Kumar Shukla^{1*}, Joerg Strempfer¹, Arvid Skaugen¹, Sonia Francoual¹, Martin Von Zimmermann¹, Leonard N Bezmaternykh², Irina A Gudim² and Vladislav L Temerov², ¹Deutsches Elektronen-Synchrotron DESY, 22607 Hamburg, Germany; ²L.V. Kirensky Institute of Physics, Krasnoyarsk 660036, Russia**CJ: Magneto-dielectric materials or meta-materials**

July 10 (Tue), 11:00~12:30, Room 206 (2F)

Chairperson: A. Zhukov (Basque Country University, Spain)

CJ01 Spin excitations and transformation of domain structure in nanocrystalline CoFeB-SiO₂ films with growth induced anisotropy

11:00 Alexander Grishin*, Department of Condensed Matter Physics, KTH Royal Institute of Technology, Sweden

CJ02 GMI effect of amorphous microwires with enhanced magnetic softness11:30 Arcady Zhukov¹, Mihail Ipatov², Ahmed Talaat² and Valentina Zhukova², ¹Dpto. Fisica de Materiales, Fac. Quimicas, Basque Country University, UPV/EHU and Ikerbasque, Basque Foundation for Science, Spain; ²Dpto. Fisica de Materiales, Fac. Quimicas, Basque Country University, UPV/EHU, Spain**CJ03 Micro-fabricated silicon spiral spring based electromagnetic energy harvester**

11:45 Jong C. Park, Dong H. Bang and Jae Y. Park*, Electronic Engineering, Kwangwoon University, Korea

CJ04 Magneto-optical study of magnetization reversal in sub-micrometric glass covered wires12:00 Alexander Chizhik^{1*}, Arcady Zhukov² and Julian Gonzalez¹, ¹Universidad del País Vasco UPV/EHU, Spain; ²Universidad del País Vasco UPV/EHU, IKERBASQUE, Basque Foundation for Science, Bilbao, Spain**CJ05 The magnetic transition and large magnetoresistance effect in perovskite Nd_{1-x}Sr_xMnO₃ system**12:15 Khai Van Vu^{1*}, Thang Viet Do², Sinh Huy Nguyen³ and Anh Thi Kim Do³, ¹Construction Mechanical Faculty, National University of Civil Engineering, Viet Nam; ²Faculty of Science, Haiphong University, Viet Nam; ³Faculty of Physics, University of Science, Vietnam National University, Hanoi, Viet Nam**DA: Superconductivity III - Fe-based superconductors**

July 10 (Tue), 15:30~17:00, Room101~3 (1F)

Chairperson: Changyoung Kim (Yonsei University, Korea)

DA01 Superconducting symmetry of Fe-based systems studied by impurity effects and neutron inelastic measurements15:30 Masatoshi Sato^{1*}, Yoshiaki Kobayashi², Takayuki Kawamura³, Yukio Yasui², Kazunori Suzuki², Masayuki Itoh², Ryoichi Kajimoto¹, Kazuhiko Ikeuchi¹, Masatoshi Arai⁴ and Philippe Bourges⁵, ¹Research Center for Neutron Science and Technology, Comprehensive Research Organization for Science and Society, Japan; ²Department of Physics, Nagoya University, Japan; ³Department of Applied Physics, Tohoku University, Japan; ⁴Materials and Life Scicence Division, J-PARC Center, JAEA, Japan; ⁵Laboratoire Leon Brillouin, CEA/Saclay, France**DA02 Carrier doping versus impurity effects in transition metal-substituted iron-based superconductors revealed by ARPES**

16:00 Atsushi Fujimori, Department of Physics, University of Tokyo, Japan

DA03 Specific heat measurements on fepn in fields up to Hc2 - a probe of nodal structure

16:30 Greg Stewart*, Physics, Univ. Florida, USA

DA04 NMR study on high temperature Fe-pnictide superconductor Ln-Fe-As-O with Tc=50 K16:45 Hidekazu Mukuda^{1*}, Satoshi Furukawa¹, Mitsuhiro Yamashita¹, Yoshio Kitaoka¹, Parasharam M Shirage², Hiroshi Eisaki² and Akira Iyo², ¹Osaka University, Japan; ²National Institute of Advanced Industrial Science and Technology (AIST), Japan**DB: Kondo systems I**

July 10 (Tue), 15:30~17:00, Room 106~8 (1F)

Chairperson: P. Schlottmann (Florida State University, USA)

DB01 Ultrahigh-resolution and time-resolved laser photoemission study on kondo materials

15:30 Shik SHIN, University of Tokyo, Japan

DB02 Magnetic moment screening in the correlated Kondo lattice model16:00 Peter Thalmeier¹, Mohammad Siahatgar¹, Burkhard Schmidt¹ and Gertrud Zwicknagl², ¹Max Planck Institute for Chemical Physics of Solids, Germany; ²Technical University Braunschweig, Germany**DB03 Influence of magnetic anisotropy on the underscreened Kondo effect in the presence of ferromagnetism**16:15 Maciej Misiorny^{1,2*}, Ireneusz Weymann² and Jozef Barnas^{2,3}¹Peter Grünberg Institut (PGI-2), Forschungszentrum Jülich & JARA Jülich Aachen Research Alliance, 52425 Jülich, Germany; ²Faculty of Physics, Adam Mickiewicz University, 61-614 Pozna, Poland; ³Institute of Molecular Physics, Polish Academy of Sciences, 60-179 Pozna, Poland**DB04 Quantum criticality out of equilibrium in the pseudogap Kondo model***Withdrawn Chung-hou Chung^{1*} and Yi-jeie Zhang², ¹Electrophysics Dept., National Chiao-Tung University, HsinChu, Taiwan; ²Electrophysics Dept., National Chiao-Tung University, HsinChi, Taiwan**DB05 A spin-selective kondo-insulator - cooperation between ferromagnetism and kondo-effect**

16:30 Robert Peters and Norio Kawakami, Kyoto University, Japan

DC: Spin-orbit / Spin-lattice / Spin-orbital physics

July 10 (Tue), 15:30~17:00, Room 104~5 (1F)

Chairperson: Jae-hoon Park (POSTECH, Korea)

DC01 Spin-orbit entangled ground states and excitations in iridium oxides

15:30 Giniyat Khaliullin, Max Planck Institute for Solid State Research, Germany

DC02 Elementary magnetic excitations of iridates and cuprates probed by resonant inelastic X-ray scattering16:00 Jeroen Van Den Brink*, *IFW Dresden, Germany***DC03 Resonant Inelastic X-ray Scattering study of Na₂IrO₃**

16:30 Hlynur Gretarsson¹, Heungsik Kim², Xuerong Liu³, John Hill³, Yogesh Singh⁴, P Gegenwart⁴, Jungho Kim⁵, Diego Casa⁵, Thomas Gog⁵, Mary Upton⁵, Jaejun Yu² and Young-june Kim^{1*}, ¹*Department of Physics, University of Toronto, Canada*; ²*Department of Physics, Seoul National University, Korea*; ³*Brookhaven National Laboratory, USA*; ⁴*Georg-August-Universitat Gottingen, Germany*; ⁵*Advanced Photon Source, Argonne National Laboratory, USA*

DC04 Magnetization plateaus in generalized Shastry-Sutherland models16:45 Pinaki Sengupta^{1*}, Keola Wierschem¹, Takafumi Suzuki² and Naoki Kawashima³,¹*Nanyang Technological University, Singapore*; ²*Hyogo University, Japan*; ³*University of Tokyo, Japan***DD: Diluted magnetic semiconductors and others**

July 10 (Tue), 15:30~17:00, Room 109~10 (1F)

Chairperson: Chang Uk Jung (Hankuk University of Foreign Studies, Korea)

DD01 Modulated spinodal decomposition and magnetotransport in (Ge,Mn) films grown on GaAs(001)

15:30 Ing-song Yu¹, Thibaut Devillers¹, Andre Barski¹, Pascale Bayle-guillemaud¹, Cyrille Beigne¹, Johan Rothman², Vincent Baltz¹, Joel Cibert³ and Matthieu Jamet^{1*}, ¹*INAC, Commissariat a l'Energie Atomique et aux Energies Alternatives, France*; ²*LETI, Commissariat a l'Energie Atomique et aux Energies Alternatives, France*; ³*Institute NEEL, CNRS, France*

DD02 Homogenous and heterogeneous magnetism in (Zn,Co)O

15:45 Maciej Sawicki¹, Ela Guziewicz¹, Małgorzata I Lukasiewicz¹, Oleg Proselkov¹, Iwona Kowalik¹, W. Lisowski², Piotr Dluzewski¹, Wojciech Paszkowicz¹, Rafal Jakiela¹, Bartłomiej S Witkowski¹, Lukasz Wachnicki¹, Fj. Luque³, D. Arvanitis⁴, W. Sobczak², M. Krawczyk², A. Jablonski², Wiktor Stefanowicz¹, Dariusz Sztenkeil¹, Marek Godlewski¹ and Tomasz Dietl¹, ¹*Institute of Physics, Polish Academy of Sciences, Poland*; ²*Institute of Physical Chemistry, Polish Academy of Sciences, Poland*; ³*Dept. de Fisica de la Materia Condensada, Universidad Autonoma de Madrid, Spain*; ⁴*Department of Physics and Astronomy, Uppsala University, Sweden*

DD03 Magnetic and optical studies of hydrogenated Cu-doped ZnO film16:00 Tong Li, Wen Xiao, Tun Seng Herng, Nina Bao and Jun Ding*, *National University of Singapore, Singapore***DD04 Formation and investigation of structural and magnetic properties of Ni-Mn-In Heusler alloy thin films**16:15 Alexey Grunin*, Alexander Goikhman and Valeria Rodionova, *Immanuel Kant Baltic Federal University, Russia***DD05 Magnetic excitations in rare earth based nanosystems***Withdrawn Karine Dumesnil^{1*}, Catherine Dufour¹, Sylvain Petit² and Alexandre Bataille²,¹*Institut Jean Lamour - Lorraine University, France*; ²*Laboratoire Leon Brillouin - CEA, France***DD06 Exchange coupled L10 FePt (hard)/ soft (A1 FePt or Co) nanocomposites**

16:30 Thanassis Speliotis¹, George Giannopoulos¹, Dimitris G Niarchos¹, W F Li² and George Hadjipanayis³, ¹*Institute of Materials Science, NCSR DEMOKRITOS, Greece*; ²*Department of Physics and Astronomy, U of Delaware, Newark, Delaware, USA*; ³*Department of Physics and Astronomy, U of Delaware, Newark Delaware, USA*

DE: Magnetic memories and logics

July 10 (Tue), 15:30~17:00, Room 201 (2F)

Chairperson: T. Endoh (Tohoku University, Japan)

DE01 Micromagnetic simulation of magnetic nanostructures

15:30 Thomas Schrefl*, Simon Bance, Lukas Exl, Johann Fischbacher, Harald Oezelt and Franz Reichel, *St. Poelten University of Applied Sciences, Austria*

DE02 Multi-bit magnetic memory based on the extraordinary Hall effect.16:00 Alexander Gerber and Amir Segal, *School of Physics and Astronomy, Tel Aviv University, Israel***DE03 Epitaxial Fe/MgO/Fe tunnelling junctions on BaTiO₃ (001)**

16:15 Greta Radaelli* and Riccardo Bertacco, *LNESS center - Polo regionale di Como - Politecnico di Milano, via Anzani 42 (Como), Italy*

DE04 Experimentally performed periodic NOT/AND/OR magnetic quantum dots cellular automata gate

16:30 Hikaru Nomura*, Yukihiro Imanaga, Yusuke Hiratsuka and Ryoichi Nakatani, *Division of Materials and Manufacturing Science, Osaka University, Japan*

DE05 Energy-efficient control of vortex-core polarizations by tailored orthogonal pulse currents in cross-point architecture

16:45 Young-sang Yu¹, Ki-suk Lee¹, Hyunsung Jung¹, Youn-seok Choi¹, Dong-soo Han¹, Myoung-woo Yoo¹, Mi-young Im², Peter Fischer² and Sang-koog Kim^{1*}, ¹*National Creative Research Initiative Center for Spin Dynamics & Spin-Wave Devices & Nanospinics Lab, Research Institute of Adv. Materials, Dep. of Materials Sci. & Eng., Seoul Nat'l Univ, Seoul, Korea*; ²*Center for X-ray Optics, Lawrence Berkeley National Laboratory, Berkeley CA 94720, USA*

DF: Chiral magnet and magnetic skyrmions

July 10 (Tue), 15:30~17:00, Room 202 (2F)

Chairperson: Kazuyoshi Yamada (KEK, Japan)

DF01 Skyrmion dynamics in metallic chiral ferromagnet15:30 Jung Hoon Han¹, Jin-hong Park¹, Jiadong Zang², Naoto Nagaosa³ and Maxim Mostovoy⁴,¹*Physics, Sungkyunkwan University, Korea*; ²*Physics, Fudan University, China*; ³*Applied Physics, The University of Tokyo, Japan*; ⁴*Zernike Institute for Advanced Materials, University of Groningen, Netherlands***DF02 Long-range crystalline nature of the skyrmion lattice in MnSi**

16:00 Tim Adams¹, Sebastian Muhlbauer², Christian Pfleiderer³, Florian Jonietz³, Andreas Bauer³, Andreas Neubauer³, Robert Georgii³, Peter Boni³, Uwe Keiderling⁴, Karin Everschor⁵, Markus Garst⁵ and Achim Rosch⁵, ¹*TU Munchen, E21, Germany*; ²*Institut fur Festkorperphysik, ETH Zurich, Zurich, Switzerland*; ³*Physik-Department E21, Technische Universitat Munchen, D-85748 Garching, Germany*; ⁴*Helmholtz Zentrum Berlin, BENSC, D-14109 Berlin, Germany*; ⁵*Institute of Theoretical Physics, Universitat zu Koln, D-50937 Koln, Germany*

DF03 Magnetic textures and electron transport in chiral helimagnets16:15 Jun-ichiro Kishine¹, Alexander Ovchinnikov², Igor Proskurin², Yoshihiko Togawa³, Yusuke Kousaka⁴¹*Graduate School of Arts and Sciences, The Open University of Japan, Japan*; ²*Department of Physics, Ural Federal University, Russia*; ³*N2RC, Osaka Prefecture University, Japan*⁴*Department of Physics, Aoyama Gakuin University, Japan***DF04 The hexagonal spin structure of A-phase in MnSi**

16:30 Sergey Grigoriev^{1*}, Nadezhda M. Potapova¹, Evgeny V. Moskvin¹, Vadim A. Dyadkin¹, Charles Dewhurst² and Sergey V. Maleyev¹, ¹*Condensed Matter Department, Petersburg Nuclear Physics Institute, Russia*; ²*Institute Laue-Langevin, France*

DG: Magnetic nanowires

July 10 (Tue), 15:30~17:00, Room 203 (2F)

Chairperson: Jean-Marie Le Breton (CNRS - Universite de Rouen, France)

DG01 Preparation and analysis of ni nanowires on si gratings

15:30 Wolfgang Kreuzpaintner^{1*}, Boris P. Toperverg², Dieter Lott³, Michael Stoermer³, Volker Neu⁴, Christina Bran⁴, Stefan Mattauch⁵, Andreas Schreyer³ and Peter Boeni¹, ¹Physik Department E21, Technische Universitaet Muenchen James-Franck-Strasse 1 85748 Garching, Germany; ²Fakultaet fuer Physik und Astronomie Ruhr-Universitaet Bochum 44780 Bochum, Germany; ³Helmholtz-Zentrum Geesthacht Max-Planck-Strasse 1 21502 Geesthacht, Germany; ⁴Magnetic Microstructures, IFW Dresden, Institute for Metallic Materials Helmholtzstrasse 20 01069 Dresden, Germany; ⁵JCNS Outstation at FRM II Forschungszentrum Juelich GmbH Lichtenbergstrasse 1 85747 Garching, Germany

DG02 Elaboration and characterization of Cu/Co multilayered nanowires

15:45 Julien Bran¹, Malick Jean¹, Rodrigue Larde¹, Jean-marie Le Breton^{1*} and Alain Pautrat², ¹Groupe de Physique des Materiaux - UMR 6634, CNRS - Universite de Rouen, France; ²CRISMAT, UMR 6508 CNRS, ENSICAEN - Universite de Caen, France

DG03 Microstructure and magnetic properties of as-deposited and annealed FeCo-based nanowires

16:00 Cristina Bran^{1*}, Javier Garcia², Victor Prida², Rafael Perez Del Real¹ and Manuel Vazquez¹, ¹Institute of Materials Science of Madrid, CSIC. 28049 Madrid, Spain; ²Dept. Fisica, Universidad de Oviedo. 33007 Oviedo, Spain

DG04 FMR behavior of Co nanowire arrays

16:15 Massimo Pasquale*, Carlo Paolo Sasso, Elena Sonia Olivetti, Marco Coisson and Federica Celegato, Divisione Elettromagnetismo, INRIM, Italy

DG05 In situ magnetic field dependent Lorentz microscopy in Co nanowires grown by focused electron beam induced deposition

16:30 Luis Alfredo Rodriguez¹, Cesar Magen^{2*}, Luis Serrano-ramon³, Etienne Snoeck⁴, Rosa Cordoba¹, Jose Maria De Teresa³ and Manuel Ricardo Ibarra¹, ¹LMA-INA, Universidad de Zaragoza, 50018, Zaragoza, Spain; ²LMA-INA and ARAID, Universidad de Zaragoza, 50018, Zaragoza, Spain; ³ICMA, Universidad de Zaragoza-CSIC, 50009, Zaragoza, Spain; ⁴CEMES-CNRS 29, rue Jeanne Marvig B.P. 94347 F-31055, Tolouse Cedex, France

DG06 Morphology and magnetic properties of GaAs/(Ga,Mn)As core-shell nanowires on Si (111)

16:45 Xuezhe Yu, Hailong Wang and Jianhua Zhao*, State Key Laboratory of Superlattices and Microstructures, Institute of Semiconductors, Chinese Academy of Sciences, China

DH: Oxide

July 10 (Tue), 15:30~17:00, Room 204 (2F)

Chairperson: Jesus Rodriguez Fernandez (Universidad de Cantabria, Spain)

DH01 Novel functionality and devices via complex oxide heteroepitaxy

15:30 Yuri Suzuki^{1*}, Franklin Wong², Chunyong He², Brittany Nelson-Cheeseman² and Elke Arenholz³, ¹Applied Physics, Stanford University, USA; ²Materials Science and Engineering, University of California, Berkeley, USA; ³Advanced Light Source, Lawrence Berkeley National Laboratory, USA

DH02 Quantum oscillations and subband properties of the LaAlO₃/SrTiO₃ heterointerface

16:00 Alix Mccollam^{1*}, Sander Wenderich², Michelle Kruize², Veerendra Guduru¹, Hajo Molegraaf², Mark Huijben², Gertjan Koster², Dave Blank², Guus Rijnders², Alexander Brinkman², Hans Hilgenkamp², Ulrich Zeitler¹ and Jan Kees Maan¹, ¹High Field Magnet Laboratory, Radboud University Nijmegen, Netherlands; ²MESA+ Institute for Nanotechnology, University of Twente, Netherlands

DH03 Electronic ordering in sodium cobaltate

16:15 Daniel Graham Porter¹, Michel Roger², Andrew Boothroyd³, Carlo Vecchini⁴, Steve Collins⁴, S. Uthayakumar¹, D. Prabhakaran³, Manoj Pandiyan¹ and Jon Goff¹, ¹Department of Physics, Royal Holloway University of London, United Kingdom; ²Service de Physique de l'Etat Condense, CEA Saclay, France; ³Clarendon Laboratory, University of Oxford, United Kingdom; ⁴Diamond Light Source, Harwell Science and Innovation Campus, United Kingdom

DH04 Electrical switching of the magnetic phase in semiconductor oxides

16:30 Antonio Ruotolo¹, Xiao Lei Wang¹, Chi Wah Leung² and Rolf Lortz³, ¹Department of Physics and Materials Science, City University of Hong Kong, Hong Kong; ²Department of Applied Physics, Hong Kong Polytechnic University, Hong Kong; ³Department of Physics, Hong Kong University of Science and Technology, Hong Kong

DH05 An approach to achieve layered spintronics material using Brownmillerite compound

16:45 Ca₂Sr_{0.5}GaMn₂O₈, S. M. Yusuf* and A. K. Bera, Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai 400 085, India

DI: Spin caloritronics I

July 10 (Tue), 15:30~17:00, Room 205 (2F)

Chairperson: E. Saitoh (Institute for Materials Research, Tohoku University, Japan)

DI01 Magnon-drag thermopile

15:30 M. V. Costache¹, G. Bridoux¹, I. Neumann² and S. O. Valenzuela³, ¹Catalan Institute of Nanotechnology (ICN), Spain; ²Catalan Institute of Nanotechnology (ICN) and Universitat Autonoma de Barcelona (UAB), Spain; ³ICREA, Catalan Institute of Nanotechnology (ICN) and Universitat Autonoma de Barcelona (UAB), Spain

DI02 Seebeck spin tunneling in silicon

16:00 Ron Jansen, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Ibaraki, Japan

DI03 Tunneling magneto Seebeck effect

16:30 Andy Thomas¹, Markus Munzenberg² and Christian Heiliger³, ¹Physics, Bielefeld University, Germany; ²Physics, Gottingen University, Germany; ³Physics, Giessen University, Germany

DJ: Applications

July 10 (Tue), 15:30~17:00, Room 206 (2F)

Chairperson: Alexander Grishin (KTH Royal Institute of Technology, Sweden)

DJ01 Novel clathrate-based composite materials for energy-efficient magnetic refrigeration

15:30 Anurag Chaturvedi, Stevce Stefanoski, George S. Nolas, Hariharan Srikanth and Manh-huong Phan*, Department of Physics, University of South Florida, USA

- DJ02** Magnetocaloric properties of doped $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ bulk ceramic and thick films
16:00 Jong-woo Kim*, Jungho Ryu, Byung-dong Hahn, Jong-jin Choi, Woon-ha Yoon, Cheol-woo Ahn, Joon-hwan Choi and Dong-soo Park, Korea Institute of Materials Science (KIMS), Korea
- DJ03** Structural, magnetic and magnetocaloric properties of $\text{Ni}_{50}\text{Mn}_{37.5}\text{Sn}_{12.5}$ ribbon Heusler alloys
16:15 Mst. Nazmunnahar^{1*}, Lorena Gonzalez², Juanjose Delval¹, Joanjosep Sunyol³, Julianmaria Gonzalez¹ and Blanca Hernando²; ¹Material Physics Department, University of Basque Country(UPV/EHU), Spain; ²Material Physics Department, University of Oviedo, Spain; ³Material Physics Department, University of Girona, Spain
- DJ04** Dependence of the magnetocaloric effect in ferromagnetic shape memory Heusler alloys on measurement protocol
16:30 Vladimir Khovaylo^{1*}, Konstantin Skokov², Hiroyuki Miki³ and Oliver Gutfleisch², ¹National University of Science and Technology 'MISIS', Moscow 119049, Russia; ²Institute for Metallic Materials, P.O. Box 270016, D-01171 Dresden, Germany; ³Institute of Fluid Science, Tohoku University, Sendai 980-8577, Japan
- DJ05** Magnetocaloric effects in manganites with perovskite structure
16:45 Abdelwaheb Cheikhouhou*, Wissem Cheikhouhou-koubaa and Mohamed Koubaa, Materials Physics Laboratory, Faculty of Sciences of Sfax, Tunisia

EA: Non-Fermi liquids and quantum phase transitions II

July 10 (Tue), 17:20~18:50, Room101~3 (1F)

Chairperson: S. Paschen (Vienna University of Technology, Austria)

- EA01** Quantum phase transitions in heavy-fermion systems
17:20 Hilbert V. Lohneysen*, Karlsruher Institut für Technologie, Physikalisches Institut and Institut für Festkörperphysik, Germany
- EA02** Lifshitz transitions and non-fermi liquid behavior in heavy-fermion metals
17:50 Matthias Voja*, Institut für Theoretische Physik, Technische Universität Dresden, Germany
- EA03** Sequential spin polarization of the fermi surface pockets in URu_2Si_2 and its implications for the hidden order
18:20 Neil Harrison¹, Moaz Altarawneh¹, Luis Balicas², P H Tobash¹, J D Thompson³, F Ronning³ and E D Bauer³, ¹National High Magnetic Field Laboratory, Los Alamos National Laboratory, USA; ²National High Magnetic Field Laboratory, Tallahassee, USA; ³Los Alamos National Laboratory, USA
- EA04** Hydrostatic pressure study of the nematicity of $\text{Sr}_3\text{Ru}_2\text{O}_7$
18:35 Dan Sun¹, Wenlong Wu¹, Santiago Grigera², Robin Perry³, Andrew Mackenzie² and Stephen Julian^{1*}, ¹The Department of Physics, University of Toronto, Canada; ²Scottish Universities Physics Alliance, School of Physics and Astronomy, University of St. Andrews, United Kingdom; ³Centre for Science at Extreme Conditions, School of Physics, University of Edinburgh, United Kingdom

EB: SCES theory I

July 10 (Tue), 17:20~18:50, Room 106~8 (1F)

Chairperson: Kwon Park (KIAS, Korea)

- EB01** Pump-probe response for correlated electron systems out of equilibrium
17:20 T. Devereaux*, Stanford University, USA

- EB02** Correlated electrons in strong electric fields
17:50 Philipp Werner¹, Martin Eckstein², Naoto Tsuji¹, Takashi Oka³ and Hideo Aoki³, ¹Department of Physics, University of Fribourg, Switzerland; ²Max Planck Research Department for Structural Dynamics, University of Hamburg - CFEL, Germany; ³Department of Physics, University of Tokyo, Japan
- EB03** Photoinduced charge order enhancement in one-dimensional extended hubbard model
18:20 Hantao Lu¹, Shigetoshi Sota¹, Hiroaki Matsueda², Janez Bonča^{3,4} and Takami Tohyama¹, ¹Yukawa Institute for Theoretical Physics, Kyoto University, Japan; ²Sendai National College of Technology, Sendai, Japan; ³Faculty of Mathematics and Physics, University of Ljubljana, Slovenia; ⁴J. Stefan Institute, Slovenia
- EB04** Electric-field effects on complex oxide interfaces: possible two-band superconductivity
18:35 Jason T Haraldsen^{1*}, Alexander V Balatsky¹, Peter Woelfle² and Quanxi Jia³, ¹Theoretical Division and Center for Integrated Nanotechnologies, Los Alamos National Laboratory, USA; ²Institute for Condensed Matter Theory and Institute for Nanotechnology, Karlsruhe Institute of Technology, Germany; ³Center for Integrated Nanotechnology, Los Alamos National Laboratory, USA

EC: Electronic structure / Spintronic materials

July 10 (Tue), 17:20~18:50, Room 104~5 (1F)

Chairperson: Byung Il Min (POSTECH, Korea)

- EC01** Electronic structure and phonons in the high pressure phases of cerium
17:20 Borje Johansson^{1*} and D. Y. Kim², ¹Department of Physics, University of Uppsala, Sweden; ²Geophysical Laboratory, Carnegie Institution of Washington, USA
- EC02** From SOC induced phenomena to non-collinear magnetism and electric field effects in magnetic systems
17:50 Arthur Freeman¹ and Kohji Nakamura², ¹Northwestern University, USA; ²Mie University, Japan
- EC03** First-principles calculation of the A-site ordered perovskite $\text{CaCu}_3\text{Fe}_4\text{O}_{12}$
18:05 Takuwa Ueda¹, Mitsuru Kodera¹, Kunihiko Yamauchi¹ and Tamio Oguchi^{2*}, ¹Osaka University, Japan; ²Osaka University & JST-CREST, Japan
- EC04** Pr partial electron donation and Co spin state changes at the metal-insulator transition in $(\text{Pr}_{1-y}\text{Y}_y)_{1-x}\text{Ca}_x\text{CoO}_3$ as seen by x-ray absorption and emission
18:20 Javier Herrero-martin^{1*}, Jose Luis Garcia-munoz¹, Carlos Frontera¹, Aura Janeth Baron-gonzalez¹, Jessica Padilla¹, Sergio Valencia², Ralf Feyerherm², Esther Dudzik², Florin Radu², Radu Abrudan³, Gloria Subias⁴ and Javier Blasco⁴, ¹Institute of Materials Science of Barcelona - CSIC, Spain; ²Helmholtz-Zentrum Berlin, BESSY, Germany; ³Institut für Experimentalphysik/Festkörperphysik, Ruhr-Universität Bochum, Germany; ⁴Instituto de Ciencia de Materiales de Aragón, CSIC-Univ. Zaragoza, Spain
- EC05** Spin transport in the anisotropic Heisenberg chain at finite temperature and momentum
18:35 Wolfram Brenig^{1*} and Robin Steinigeweg², ¹Technical University Braunschweig, Institute for Theoretical Physics, Germany; ²J. Stefan Institute Ljubljana, Slovenia

ED: Magnetic thin films and nanostructures I

July 10 (Tue), 17:20~18:50, Room 109~10 (1F)

Chairperson: Minn-Tsong Lin (National Taiwan University, Taiwan)

- ED01** Growth of metastable fcc-Fe film on Cu(100) single-crystal underlayer and phase transformation from fcc to bcc
17:20 Mitsu Otake*, Kohji Shimamoto and Masaaki Futamoto, Faculty of Science and Engineering, Chuo University, Japan
- ED02** Neel temperature and the thickness of surface NiO
17:35 Wei Pan*, Ying-ta Shih and Chien-yu Su, National Chung Cheng University, Taiwan
- ED03** Reduced exchange bias field in antiferromagnet-patterned FeF₂/Ni stripes
17:50 R. Morales^{1*}, J. E. Villegas², D. Navas³, N. Soriano³, E. Castellano-hernandez³, X. Batlle⁴, F. Castano³ and Ivan K. Schuller⁵, ¹University of the Basque Country and IKERBASQUE Basque Foundation for Science, Bilbao, Spain; ²Unité Mixte de Physique CNRS/Thales and Université Paris Sud, Orsay, France; ³University of the Basque Country, Leioa, Spain; ⁴Universitat de Barcelona, Barcelona, Spain; ⁵University of California San Diego, La Jolla, USA
- ED04** Experimental verification of the magnetic interactions between Co particles in C₆₀-Co granular films
18:05 Shuhei Toyokawa*, Eiiti Tamura, Eiji Shikoh, Teruya Shinjo and Masashi Shiraishi, Osaka Univ., Japan
- ED05** Emergent magnetic switching in spin glass La_{0.7}Sr_{0.3}(Mn,Fe)O₃/La_{0.7}Sr_{0.3}MnO₃ thin films
18:20 Zhi-hong Wang^{1*}, Bao-gen Shen¹, Ji-rong Sun¹, G. Cristiani² and H. U. Habermeier², ¹Institute of Physics, Chinese Academy of Sciences, P. O. Box 603, Beijing 100190, China; ²Max-Planck-Institute for Solid State Research, Heisenbergstrasse 1, D-70569, Stuttgart, Germany
- ED06** FM-AFM crossover in vanadium oxide nanomaterials.
18:35 Sergey Demishev^{1*}, Alexey Chernobrovkin¹, Vladimir Glushkov¹, Nickolay Sluchanko¹, Nickolay Samarin¹, Alexey Semeno¹, Sergey Balakhonov², Bulat Churagulov², Anastasiya Grigorieva² and Evgenii Goodilin², ¹Low Temperatures and Cryogenic Engineering, General Physics Institute of RAS, Russia; ²Faculty of Materials Sciences, Moscow State University, Moscow, 119991 Russia

EE: Spin-orbit spin torque

July 10 (Tue), 17:20~18:50, Room 201 (2F)

Chairperson: J. Wunderlich (Hitachi Cambridge Lab, UK)

EE01 Spin hall effect from first principles

- 17:20 Christian Herschbach¹, Katarina Tauber¹, Dmitry Fedorov¹, Martin Gradhand² and Ingrid Mertig^{3*}, ¹Theory Department, Max Planck Institute of Microstructure Physics Halle, 06120 Halle, Germany; ²H. H. Wills Physics Laboratory, University of Bristol, Bristol BS8 1TH, United Kingdom; ³Institute of Physics, Martin Luther University Halle, 06099 Halle, Germany

EE02 Spin transfer torques in magnetic bilayers with strong spin orbit coupling

- 17:35 Mark D. Stiles^{1*}, Paul M. Haney¹, Kyung-jin Lee² and Hyun-woo Lee³, ¹Center for Nanoscale Science and Technology, National Institute of Standards and Technology, USA; ²Department of Materials Science and Engineering, Korea University, Korea; ³PCTP and Department of Physics, Pohang University of Science and Technology, Korea

EE03 Diffusive spin dynamics in ferromagnetic thin films with a Rashba interaction

- 18:05 Xuhui Wang* and Aurelien Manchon, KAUST, Saudi Arabia

EE04 Emergence of magnetic monopoles in magnetic systems with spin-orbit coupling

- 18:20 Akihito Takeuchi* and Gen Tatara, Department of Physics, Tokyo Metropolitan University, Japan

EE05 Generalization of Gilbert damping in Rashba systems

- 18:35 Kyoung-ghan Kim^{1*}, Jung-hwan Moon², Kyung-jin Lee² and Hyun-woo Lee¹, ¹Department of Physics, POSTECH, Korea; ²Department of Materials Science and Engineering, Korea University, Korea

EF: Intermetallic compounds

July 10 (Tue), 17:20~18:50, Room 202 (2F)

Chairperson: Je-Geun Park (Seoul National University, Korea)

EF01 Superconducting, antiferroquadrupolar, and structural transitions in caged compounds PrT₂Zn₂₀ (T=Ru, Rh, and Ir)

- 17:20 Takahiro Onimaru¹, K. T. Matsumoto¹, N. Nagasawa¹, Y. F. Inoue¹, K. Umeo¹, S. Kittaka², T. Sakakibara², Y. Karaki³, M. Kubota² and T. Takabatake¹, ¹Hiroshima University, Japan; ²University of Tokyo, Japan; ³University of the Ryukyus, Japan

EF02 Structural and magnetic phase separation in PrMn₂Ge_{2-x}Si_x and related compounds

- 17:50 Shane Joseph Kennedy^{1*}, Jianli Wang², Stewart Campbell³, Michael Hofmann⁴ and Shixue Dou⁵, ¹Bragg Institute, Australian Nuclear Science and Technology Organisation, Lucas Heights, NSW 2234, Australia; ²Bragg Institute, Australian Nuclear Science and Technology Organisation, Lucas Heights, NSW, 2234, Australia; ³School of Physical, environmental and Mathematical Sciences, The University of NSW, Canberra, ACT 2600, Australia; ⁴FRM-II, Technische Universität München, 85747 Garching, Germany; ⁵Institute of Superconducting and Electronic Materials, The University of Wollongong, Wollongong NSW, 2522, Australia

EF03 Observations of magnetic and ferroelastic nanoclusters in RCo_x

- 18:05 Julia Herrero-albilllos¹, Marcella Bonilla^{2*}, Sarah L Driver³, Irene Calvo², Celia Castan², Adriana I Figueroa², Juan Bartolome², Michael A Carpenter³, Luis Garcia² and Fernando Bartolome², ¹CUD, Centro Universitario de la Defensa de Zaragoza, Cl Huesca s/n, Zaragoza, Spain; ²ICMA and Dpto. de Fisica de la Mat. Cond. CSIC - Universidad de Zaragoza, Pedro Cerbuna 12, Zaragoza, Spain; ³Department of Earth Sciences, University of Cambridge, Downing Street, Cambridge CB2 3EQ, United Kingdom

EF04 First-principles molecular dynamics study on the magnetic structure of Mn₃Pt

- 18:20 Takashi Uchida^{1*}, Yoshiro Kakehashi² and Nobuyuki Kimura¹, ¹Hokkaido Institute of Technology, Japan; ²University of the Ryukyus, Japan

EF05 One-dimentional magnetism in metallic MnB₄

- 18:35 Sergii Khmelevskyi, Josef Redinger and Peter Mohn, Institute of Applied Physics, Vienna University of Technology, Austria

EG: Metal spintronics I

July 10 (Tue), 17:20~18:50, Room 203 (2F)

Chairperson: Y. Otani (University of Tokyo, Japan)

EG01 Negative spin current polarization in amorphous CoFeB measured via the spin-wave doppler effect

- 17:20 Konrad Hsu Aschenbach¹, Meng Zhut¹ and Robert D McMichael^{2*}, ¹Center for Nanoscale Science and Technology, NIST / Maryland Nanocenter, University of Maryland, USA; ²Center for Nanoscale Science and Technology, NIST, Gaithersburg, MD 20899, USA

EG02 Switching the conductance of a magnetostrictive nanocontact by magnetic field

- 17:35 Marc Mueller, Christoph Suerger^{*}, Richard Montbrun and Hilbert V. Lohneysen, Physikalisches Institut and DFG Center for Functional Nanostructures, Karlsruhe Institute of Technology (KIT), Germany

EG03 Spin wave and spin pumping in permalloy strips

- 17:50 Sankha Subhra Mukherjee, Jae Hyun Kwon, Mahdi Jamali, Praveen Deorani and Hyunsoo Yang*, National University of Singapore, Singapore

- EG04** Clarification of oxygen impurity effect on NCMR with the film resistivity and bulk scattering spin asymmetry for [FeCo/Natural Oxidation] multi-layers
18:20 Yohei Shiokawa, *Tohoku university, Japan*
- EG05** Room-temperature magnetoresistance properties of planar-type Ni nanostructures controlled from nanoconstrictions to nanogaps
18:35 Jun Kitagawa, Ryutaro Suda and Jun-ichi Shirakashi*, *Department of Electrical and Electronic Engineering, Tokyo University of Agriculture and Technology, Japan*

EH: Novel materials and devices I

July 10 (Tue), 17:20~18:50, Room 204 (2F)

Chairperson: Alexander Granovsky (M.V. Lomonosov Moscow State University, Russia)

- EH01** New materials for enhancing device performance in spintronics
17:20 Koichiro Inomata, Hiroaki Sukegawa, Zhechao Wen and Seiji Mitani, *Magnetic Materials Unit, National Institute for Materials Science (NIMS), Japan*
- EH02** Organic high temperature ferromagnetic compositions
17:50 Young-wan Kwon^{1*}, Chang Hoon Lee², Dong Hoon Choi¹, Jung-il Jin¹, Eui-kwan Koh³ and Y. H. Geerts⁴, ¹*Chemistry, Korea University, Korea*; ²*Polymer Science & Engineering, Chosun University, Korea*; ³*Seoul Branch, Korea Basic Science Institute, Korea*; ⁴*Chemistry, Universite Libre de Bruxelles, Belgium*
- EH03** Structure and magnetic properties of the new ferrimagnetic AFe₃O(PO₄)₃ (A=Ca,Sr,Cd,Pb) compounds
18:05 Hassan El Hafid¹, Matias Velazquez^{1*}, Olivier Perez², Abdelaziz El Jazouli³, Alain Pautrat², Rodolphe Decourt¹, Philippe Veber¹, Oudomsack Viraphong¹, Emmanuel Veron⁴ and Claude Delmas¹, ¹*Institut de la Chimie de la Matiere Condensee de Bordeaux, CNRS, France*; ²*CRISMAT, CNRS/ENS/Caen, France*; ³*LCMS, Universite de Casablanca, Morocco*; ⁴*CEMHTI-CNRS, France*
- EH04** Magnonic metamaterials formed by arrays of Co antidots on continuous NiFe films
18:20 Ehsan Ahmad, Yat-yin Au, Toby Davison, Mykola Dvornik and Volodymyr Kruglyak*, *University of Exeter, United Kingdom*
- EH05** Formation of FeSi thin films and magnetic properties
18:35 Yooleemi Shin¹, Tuan Anh Duong¹, Seungmok Jeon¹, Dung Duc Dang², Thiet Van Duong¹ and Sunglae Cho^{1*}, ¹*Department of Physics, University of Ulsan, Korea*; ²*Department of General Physics, School of Engineering Physics, Ha Noi University of Science and Technology, Viet Nam*

EI: Perpendicular magnetic anisotropy materials

July 10 (Tue), 17:20~18:50, Room 205 (2F)

Chairperson: Jian Shen (Fudan University, China)

- EI01** Perpendicular magnetic anisotropy in Fe/Fe_{1-x}Co_x multilayers
17:20 Maciej Dabrowski¹, Pedro Gastelois¹, Fikret Yildiz¹, Takeshi Nakagawa², Yasushi Takagi², Toshihiko Yokoyama², Marek Przybylski* and Jurgen Kirschner¹, ¹*Max-Planck-Institut fur Mikrostrukturphysik, Halle, Germany*; ²*Institute for Molecular Science, Okazaki, Japan*
- EI02** Effect of annealing temperature on L1⁰ ordering and perpendicular magnetic anisotropy of FePd/CoFeB films
17:35 Mohammed Nazrul Islam Khan*, Hiroshi Naganuma, Nobuhito Inami, Yusuke Ohdaira, Mikihiko Oogane and Yasuo Ando, *Applied Physics, Tohoku University, Japan*

- EI03** Magnetic properties of tetragonally strained Fe/(W,Re) multilayers
17:50 Cristina Bran¹, Matthias Hudl², Matts Bjorck¹, Vassilius Kapakis¹ and Gabriella Andersson^{1*}, ¹*Department of Physics and Astronomy, Uppsala University, Sweden*; ²*Department of Engineering Sciences, Uppsala University, Sweden*
- EI04** Alloying as a possible mechanism in annealing induced perpendicular magnetic anisotropy in alumina/Co/M (where M=Pd,Pt or Au) trilayers
18:05 Patrick Warin, Alain Marty, Ariel Brenac, Lucien Notin, Stephanie Pouget, Celine Vergnaud, Cyrille Beigne and Matthieu Jamet*, *INAC, Commissariat a l'Energie Atomique et aux Energies Alternatives, France*
- EI05** High perpendicular magnetic anisotropy at Co_xNi_{1-x}(x = 0.0~1.0)/α-Cr₂O₃ interface
18:20 Yu Shiratsuchi*, Hiroto Oikawa, Shin-ichi Kawahara and Ryoichi Nakatani, *Osaka University, Japan*
- EI06** Controlling domain wall motion by electric fields in perpendicularly magnetized materials
18:35 Adrianus Schellekens*, Arno Van Den Brink, Jeroen Franken, Henk Swagten and Bert Koopmans, *Applied Physics, Eindhoven University of Technology, Netherlands*

EJ: Rare-earth hard magnetic materials

July 10 (Tue), 17:20~18:50, Room 206 (2F)

Chairperson: O.Gutfleisch (TU Darmstadt, Germany)

- EJ01** Evaluation of interlayer exchange coupling in α-Fe(100)/Nd₂Fe₁₄B(001) Films
17:20 Daisuke Ogawa¹, Kunihiro Koike¹, Shigemi Mizukami², Takamichi Miyazaki³, Mikihiko Oogane³, Yasuo Ando³ and Hiroaki Kato¹, ¹*Graduate School of Science and Engineering, Yamagata University, Japan*; ²*WPI-AIMR, Tohoku University, Japan*; ³*Graduate School of Engineering, Tohoku University, Japan*
- EJ02** Morphology and magnetic properties of SmCo₃/Fe and Sm₂Co₃/FeCo nanocomposite magnets prepared via severe plastic deformation
17:35 Narayan Poudyal, Nguyen Van Vuong, Ying Zhang and J. Ping Liu*, *Department of Physics, University of Texas at Arlington, USA*
- EJ03** Atomic scale investigation of Sm-Co/Fe nanocomposites: Influence of Fe/Co interdiffusion on the magnetic properties
17:50 Jean-marie Le Breton^{1*}, Rodrigue Larde¹, Adeline Maitre¹, Denis Ledue¹, Olivier Isnard², Ionel Chicinas³, Viorel Pop⁴ and Dominique Givord², ¹*Groupe de Physique des Materiaux - UMR 6634, CNRS - Universite de Rouen, France*; ²*Institut Neel, CNRS - Universite Joseph Fourier Grenoble, France*; ³*Materials Science and Technology Department, Technical University Cluj-Napoca, Romania*; ⁴*Faculty of Physics, Babes-Bolyai University Romania, Romania*
- EJ04** Effect of particle size on the coercivity of Nd-Fe-B and Sm-Co nanoparticles prepared by surfactant-assisted ball milling
18:05 Nilay Gunduz Akdogan^{1*}, Wanfeng Li¹, Dimitrios Niarchos² and George Hadjipanayis¹, ¹*Physics and Astronomy, University of Delaware, USA*; ²*Institute of Material Science, N. C. S. R., Greece*

FA: Spin caloritronics II

July 11 (Wed), 11:00~12:30, Room101~3 (1F)

Chairperson: S. Valenzuela (ICREA and Catalan Institute of Nanotechnology, Spain)

- FA01** Dynamical generation of spin currents
11:00 Eiji Saitoh, *Institute for Materials Research, Tohoku University, ASRC, Japan Atomic Energy Agency, Japan*

FA02 Domain wall motion by the magnonic spin seebeck effect11:30 Ulrike Ritzmann, Denise Hinzke and Ulrich Nowak, *Department of Physics, University of Konstanz, Germany***FA03 Phonon-drag spin Seebeck effect**11:45 Hiroto Adachi¹, Jun-ichiro Ohe², Saburo Takahashi³ and Sadamichi Maekawa¹, ¹*Japan Atomic Energy Agency, Japan; ²Toho University, Japan; ³Tohoku University, Japan***FA04 Entanglement of spin Seebeck effect and anomalous Nernst effect**12:00 Chia-ling Chien, *Physics and Astronomy, Johns Hopkins University, USA***FB: Heavy fermions II**

July 11 (Wed), 11:00~12:30, Room 104~5 (1F)

Chairperson: J. D. Thompson (Los Alamos National Lab., USA)

FB01 Textured superconductivity in the heavy fermion CeRhIn511:00 Xin Lu¹, Tuson Park², Han-oh Lee¹, I. Martin¹, V. A. Sidorov³, K. Gofryk¹, F. Ronning¹, E. D. Bauer¹ and J. D. Thompson¹, ¹*Los Alamos National Lab, USA; ²Department of Physics, Sungkyunkwan University, Korea; ³Vereshchagin Institute of High Pressure Physics, RAS, 142190 Troitsk, Russia***FB02 Exotic superconductivity of heavy electrons in artificial two-dimensional Kondo lattices**11:30 Takasada Shibauchi, *Department of Physics, Kyoto University, Japan***FB03 Evolution of quasiparticle entropy in high-field superconducting phase in CeCoIn₅**12:00 Yoshi Tokiwa¹, Philipp Gegenwart¹ and Eric D Bauer², ¹*I. Physikalisches Institut, Georg-August-Universitaet Goettingen, 37077 Goettingen, Germany; ²Los Alamos National Laboratory, Los Alamos, New Mexico 87545, USA***FB04 Electronic structure of ferromagnetic heavy fermion YbNi₄P₂**12:15 Sven Friedemann^{1*}, Swee K Goh¹, Lina Klintberg¹, F Malte Grosche¹, Cornelius Krellner², Christoph Geibel², Frank Steglich² and Helge Roßner², ¹*Cavendish Laboratory, University of Cambridge, United Kingdom; ²Max Planck Institute for Chemical Physics of Solids, Dresden, Germany***FC: Ultrafast switching I**

July 11 (Wed), 11:00~12:30, Room 201 (2F)

Chairperson: Peter Fischer (LBNL, USA)

FC01 Models of spin dynamics; ultrafast heat pulses as a sufficient stimulus for reversal in a ferrimagnet11:00 Roy W Chantrell¹, J Barker¹, Rfl Evans¹, U Atxitia², O Chubykalo-fesenko² and Rw Chantrell¹, ¹*Physics, University of York, United Kingdom; ²ICMM, Spain***FC02 Coherent spin-photon interaction and ultrafast magnetism: From principles to applications**11:30 Jean-Yves Bigot, Ji-Wan Kim, Mircea Vomir, and Marie Barthelemy, *IPCMS, CNRS, Universite de Strasbourg, France***FC03 Ultrafast switching of ferrimagnets**12:00 Sonke Wienholdt¹, Denise Hinzke¹, Peter Openeer² and Uli Nowak¹, ¹*Department of Physics, University of Konstanz, Germany; ²Department of Physics, Uppsala University, Sweden***FD: Vortex dynamics I**

July 11 (Wed), 11:00~12:30, Room 202 (2F)

Chairperson: Kristen Buchanan (Colorado State University, USA)

FD01 Spin wave mediated magnetic vortex core reversal, Towards a 100 ps V(ortex)MRAM11:00 Hermann Stoll*, *MPI for Intelligent Systems (formerly MPI for Metals Research), Germany***FD02 Magnetic vortices and antivortices - From time-resolved imaging to the influence of temperature**11:30 Thomas Kamionka, Michael Martens, Andre Drews, Benjamin Krueger, Ole Albrecht and Guido Meier*, *University of Hamburg, Germany***FD03 Oersted field contribution on the magnetic vortex core dynamics proved by homodyne detection**12:00 June Seo Kim¹, Martin Staerk², Jungbum Yoon³, Chun Yeol You³, Florian Kronast⁴, Christian Ulysse⁵, Giancarlo Faini⁵ and Mathias Kläui^{1*}, ¹*Institut fuer Physik, Johannes Gutenberg-Universitaet Mainz, Germany; ²Fachbereich Physik, Universitaet Konstanz, Germany; ³Department of Physics, Inha University, Korea; ⁴Helmholtz-Zentrum Berlin fuer Materialien und Energie GmbH, Germany; ⁵Phynano Team, Laboratoire de Photonique et de Nanostructures, CNRS, France***FD04 Vortex core switching driven by the novel inverse Faraday effect**12:15 Katsuhisa Taguchi^{1*}, Jun-ichiro Ohe² and Gen Tatara¹, ¹*Physics, Tokyo Metropolitan University, Japan; ²Physics, Toho University, Japan***FE: SCES theory II**

July 11 (Wed), 11:00~12:30, Room 203 (2F)

Chairperson: D. Manske (MPI, Germany)

FE01 Ab initio studies of strongly correlated electron systems11:00 Masatoshi Imada, *Department of Applied Physics, University of Tokyo, Japan***FE02 Coarse graining tensor renormalization by the higher-order singular value decomposition**11:30 Tao Xiang, *Institute of Theoretical Physics/Institute of Physics, Chinese Academy of Sciences, China***FE03 Monte-carlo approach to stationary non-equilibrium of mesoscopic systems**12:00 Thomas Pruschke^{1*} and Andreas Dirks², ¹*Theoretical Physics, Universitat Gottingen, Germany; ²Theoretical Physics, University of Goettingen, Germany***FE04 SU(4) symmetry for strongly correlated electrons: Kondo and mixed-valence effects in terms of gell-mann matrices**12:15 Konstantin Kikoin, *School of Physics and Astronomy, Tel-Aviv university, Israel***GA: Superconductivity IV - Fe-based superconductors**

July 12 (Thu), 11:00~12:30, Room101~3 (1F)

Chairperson: S. Budko (Iowa State University, USA)

GA01 Detection of orbital fluctuations above the structural transition temperature in iron pnictides and chalcogenides11:00 L. H. Greene^{1*}, H. Z. Arhan¹, C. R. Hunt¹, W. K. Park¹, J. Gillett², S. D. Das², S. E. Sebastian², Z. J. Xu³, J. S. Wen³, Z. W. Lin³, Q. Li³, G. Gu³, A. Thaler⁴, S. Ran⁴, S. L. Bud'ko⁴, P. C. Canfield⁴, D. Y. Chung⁵, M. G. Kanatzidis⁵, Wei-cheng Lee¹ and P. Phillips¹, ¹*Physics, University of Illinois at Urbana-Champaign, USA; ²Physics, Cavendish Laboratory, University of Cambridge, United Kingdom; ³Physics, Brookhaven National Laboratory, USA; ⁴Physics and Astronomy, Ames Laboratory and Iowa State University, USA; ⁵Materials Science, Argonne National Laboratory, USA*

GA02 Nature of magnetic excitations in superconducting iron superconductors11:30 Pengcheng Dai, *U. of Tennessee/Institute of Physics, CAS, USA***GA03** Universal microscopic description of the infrared conductivity of 122 iron arsenides12:00 Aliaksei Charnukha^{1*}, O. V. Dolgov¹, A. A. Golubov², Y. Matiks¹, D. L. Sun¹, C. T. Lin¹, B. Keimer¹ and A. V. Boris¹, ¹*Max Planck Institute for Solid-State Research, Germany*; ²*Faculty of Science and Technology and MESA+ Institute of Nanotechnology Enschede, Netherlands***GA04** Various fabricating conditions of potassium doped BaFe₂As₂ films by pulsed laser deposition system12:15 Nam Hoon Lee, Soon-gil Jung and W. N. Kang*, *Department of Physics, SungKyunKwan Univ., Korea***GB: Multiferroics III - nonreciprocal effect and electronic ferroelectricity**

July 12 (Thu), 11:00~12:30, Room 106~8 (1F)

Chairperson: R. Kremer (MPI for Solid State Research, Stuttgart, Germany)

GB01 Nonreciprocal directional dichroism and toroidal magnons in multiferroic materials11:00 Nobuo Furukawa^{1*} and Shin Miyahara², ¹*Department of Physics, Aoyama Gakuin University, Japan*; ²*ERATO-Multiferroics Project, Japan Science and Technology Agency, Japan***GB02** Electronic ferroelectricity in correlated electron systems11:30 Sumio Ishihara*, Makoto Naka and Akihiko Sekine, *Department of Physics, Tohoku University, Japan***GB03** Interplay between electronic ferroelectricity and magnetism in molecular TMTTF salts11:45 Kazuyoshi Yoshimi¹, Hitoshi Seo^{2*}, Shoji Ishibashi³ and Stuart E. Brown⁴, ¹*University of Tokyo, and AIST, Japan*; ²*RIKEN and JST-CREST, Japan*; ³*AIST, Japan*; ⁴*UCLA, USA***GB04** Dielectric anomaly in dimer-Mott insulator β -(BEDT-TTF)₂Cl₂ with square lattice12:00 Satoshi Iguchi¹, Satoru Sasaki¹, Naoki Yoneyama², Hiromi Taniguchi³ and Takahiko Sasaki⁴, ¹*IMR, Tohoku Univ, Japan*; ²*Univ. of Yamanashi, JST-CREST, Japan*; ³*Saitama Univ., Japan*; ⁴*IMR, Tohoku Univ, JST-CREST, Japan***GB05** Multiferroic transition in a quasi-layered bismuth ferrite12:15 Chan-ho Yang, *Physics, KAIST, Korea***GC: Heavy fermions III**

July 12 (Thu), 11:00~12:30, Room 104~5 (1F)

Chairperson: Steffen Wirth (Max Planck Institute for Chemical Physics of Solids, Germany)

GC01 Field-dependent Fermi surface and high-field superconductivity in URhGe11:00 Ed Yelland^{1,2*}, J. M. Barraclough², M. Kepa³, I. Sheikin⁴, D. Sokolov³, W. Wang², K. V. Kamenev³ and A. D. Huxley^{1,2}, ¹*School of Physics and Astronomy and Centre for Science at Extreme Conditions, University of Edinburgh, United Kingdom*; ²*School of Physics and Astronomy, University of St Andrews, United Kingdom*; ³*School of Engineering and Centre for Science at Extreme Conditions, University of Edinburgh, United Kingdom*; ⁴*LNCMI, CNRS, Grenoble, France***GC02** Conventional quantum criticality in CeCu₂Si₂11:30 Oliver Stockert*, *Max-Planck-Institute for Chemical Physics of Solids, Germany***GC03** Shubnikov-de Haas oscillation in PuIn₃12:00 Yoshinori Haga¹, Oscar Ayala-valenzuela², Ross McDonald², Chuck Mielke², Eric D. Bauer², J N Mitchell², P. H. Tobash², Joe D. Thompson² and Zachary Fisk¹, ¹*Advanced Science Research Center, Japan Atomic Energy Agency, Japan*; ²*Los Alamos National Laboratory, USA***GC04** Spin fluctuations and Lifshitz transition in UGe₂ probed by Larmor neutron diffraction under pressure12:15 Dmitry Sokolov^{1*}, Robert Ritz², Christian Pfleiderer², Thomas Keller³ and Andrew Huxley¹, ¹*The University of Edinburgh, United Kingdom*; ²*Technische Universität München, Germany*; ³*MPI Stuttgart, Germany***GD: Ultrafast switching II**

July 12 (Thu), 11:00~12:30, Room 109~10 (1F)

Chairperson: Roy Chantrell (The University of York, UK)

GD01 Ultrafast manipulation of magnetic order11:00 Theo Rasing, *SSI, Radboud University, Netherlands***GD02** Ultrafast emergence of nanoscale ferromagnetism far from equilibrium11:30 Hermann Andreas Durr, *Photon Science, SLAC National Accelerator Laboratory, USA***GD03** Modeling of ultra-fast magnetisation dynamics12:00 O. Chubykalo-Fesenko^{1*}, U Atxitia^{1,2}, T.Ostler², R.Evans² and R.W.Chantrell², ¹*Material Science Institute of Madrid, CSIC, Spain*; ²*Physics Department, University of York, UK***GD04** Ultrafast inverse Faraday effect in paramagnetic dielectrics12:15 Rostislav V. Mikhaylovskiy*, Euan Hendry and Volodymyr V. Kruglyak, *School of Physics, University of Exeter, United Kingdom***GE: Domain wall motion I**

July 12 (Thu), 11:00~12:30, Room 201 (2F)

Chairperson: Dong-Hyun Kim (Chungbuk National University, Korea)

GE01 Detection of domain wall position and magnetization reversal in nanostructures using the magnon contribution to the resistivity11:00 Jean-Philippe Attane, Van Dai Nguyen, Alain Marty, Piotr Laczkowski, Cyrille Beigne, Lucien Notin, Matthieu Jamet, Williams Savero-torres, Murat Cubukcu and Laurent Vila*, *Université Joseph Fourier, BP 53, 38041, Grenoble and INAC/CEA Grenoble, France***GE02** Tunable resistivity of individual magnetic DWs11:15 Jeroen Franken*, Mark Hoeijmakers, Henk Swagten and Bert Koopmans, *Department of Applied Physics, Eindhoven University of Technology, Netherlands***GE03** Observation of domain-wall capacitance in permalloy nanowires11:30 Kulothungasagaran Narayananpillai, Mahdi Jamali, Ajeesh Sahadevan and Hyunsoo Yang*, *Electrical and Computer Engineering, National University of Singapore, Singapore***GE04** Proposal new type of low current driven spin logic in PMA TbFeCo wire11:45 Toma Kanehira and Hiroyuki Awano, *Toyota Technological Institute Information Storage Material Lab., Japan***GE05** Current-induced domain wall motion in perpendicularly magnetized nanowire12:00 Teruo Ono, *Kyoto University, Japan***GF: Spin glasses and diluted magnets**

July 12 (Thu), 11:00~12:30, Room 202 (2F)

Chairperson: Seunghun Lee (University of Virginia, USA)

GF01 Melting spin ice

11:00 Sarah Ruth Dunsiger¹, A. A. Aczel², C. Arguello³, H. Dabkowska⁴, A. Dabkowski⁵, M-h Du⁶, T. Goko³, B. Javanparast⁷, T. Lin⁷, F. L. Ning³, H. M. L. Noad², D. J. Singh⁶, T. J. Williams², Y. J. Uemura³, M. J. P. Gingras⁷ and G. M. Luke²; ¹*Physics Department E21, Technical University of Munich, Germany*; ²*Dept of Physics and Astronomy, McMaster University, Canada*; ³*Dept of Physics, Columbia University, USA*; ⁴*Brockhouse Institute for Materials Research, McMaster University, Canada*; ⁵*Brockhouse Institute for Materials Research, McMaster University, Canada*; ⁶*Materials Science and Technology Division, Oak Ridge National Laboratory, USA*; ⁷*Dept of Physics and Astronomy, University of Waterloo, Canada*

GF02 Artificial spin ice: Dimensional reduction, avalanches and disorder

11:30 Remo Viktor Hugli, Gerard Duff and Hans - Benjamin Braun*, *Physics, University College Dublin, Ireland*

GF03 Low temperature magnetic studies of geometrically frustrated SrHo₂O₄

11:45 Olga Young^{1*}, Geetha Balakrishnan¹, Andrew R. Wildes², Laurent C. Chapon² and Oleg A. Petrenko¹, ¹*Department of Physics, University of Warwick, Coventry, CV4 7AL, United Kingdom*; ²*Institut Laue-Langevin, Jules Horowitz, BP156, 38042 Grenoble Cedex 9, France*

GF04 Spin densities in manganese molecular cluster : [Mn₄L₄](ClO₄)₂(H₂O)₂

12:00 Clara Rodriguez-blanco¹, Javier Campo^{1*}, Jose Alberto Rodriguez-velamazan¹, Beatrice Gillon², Javier Luzon³ and Jose Sanchez-costa⁴, ¹*Materials Science Institute of Aragon, (CSIC-University of Zaragoza), Spain*; ²*Laboratoire Leon Brillouin, CEA-Saclay, France*; ³*Centro Universitario de la Defensa, Zaragoza, Spain*; ⁴*University of Barcelona, Spain*

GF05 Electronic structure and magnetic properties of Cr-doped rutile TiO₂: Charge and magnetic state of crimpurity

12:15 Rokyeon Kim¹, Suyeon Cho¹, Wongoo Park¹, Je-geun Park¹, Se-jung Oh¹, Patrick Berthet² and Jaejun Yu^{1*}, ¹*Department of Physics and Astronomy, Seoul National University, Korea*; ²*University of Paris-Sud, France*

GG: Arrays of magnetic nanostructures II

July 12 (Thu), 11:00~12:30, Room 203 (2F)

Chairperson: Sang Ho Lim (Korea University, Korea)

GG01 Magnetic nanoparticle arrays by nanomasking pattern transfer

11:00 Sara Majetich, *Physics, Carnegie Mellon University, USA*

GG02 Spin wave bands and bandgaps in a two-dimensional ferromagnetic antidot array

11:30 Roberto Zivieri^{1*}, Silvia Tacchi², Federico Montoncello¹, Loris Giovannini¹, Fabrizio Nizzoli¹, Marco Madami², Gianluca Gubbiotti², Giovanni Carlotti², Sebastian Neusser³, George Duer³ and Dirk Grundler³, ¹*Department of Physics, University of Ferrara, Italy*; ²*Department of Physics, University of Perugia, Italy*; ³*Department of Physics, University of Muenchen, Germany*

GG03 Ratchet effect in magnetic domain wall motion induced by 2D arrays of triangular submicrometric holes

11:45 Celia Castán-Guerrero^{1*}, Aurelio Hierro-Rodriguez², Fernando Valdés-Bango², Jose Ignacio Martín², Javier Sese³, Julia Herrero-Albillos⁴, Fernando Bartolome¹, Juan Bartolome¹, Jose Maria Alameda² and Luis Miguel Garcia¹, ¹*Instituto de Ciencia de Materiales de Aragon (Universidad de Zaragoza - CSIC), Spain*; ²*Departamento de Física, Universidad de Oviedo - CINN, Spain*; ³*Instituto de Nanociencia de Aragon (Universidad de Zaragoza), Spain*; ⁴*Centro Universitario de la Defensa, Academia General Militar, Spain*

GG04 Tailored magnetic anisotropy of Py/Co bilayer ordered nanohole arrays

12:00 Karla J. Merazzo, Giovanni A. Badini Confalonieri, Rafael P. Del Real and Manuel Vazquez, *Materials for Information Technologies, Instituto de Ciencia de Materiales de Madrid, CSIC, Spain*

GG05 Tailoring magnetic properties of Co thin films through antidot arrays: crossover from antidot

12:15 to dot regime
Celia Castán-Guerrero^{1*}, Javier Sese², Julia Herrero-Albillos^{1,3}, Florian Kronast⁴, Luis Alfredo Rodriguez², Cesar Magen², Karla J. Merazzo⁵, Manuel Vazquez⁵, Juan Bartolome¹, Fernando Bartolome¹, Pavel Strichovanec², Paolo Vavassori⁶ and Luis Miguel Garcia¹, ¹*Instituto de Ciencia de Materiales de Aragon (Universidad de Zaragoza - CSIC), Spain*; ²*Instituto de Nanociencia de Aragon (Universidad de Zaragoza), Spain*; ³*Centro Universitario de la Defensa (Academia General Militar), Spain*; ⁴*Helmholtz-Zentrum Berlin fur Materialien und Energie GmbH, Germany*; ⁵*Instituto de Ciencia de Materiales de Madrid (CSIC), Spain*; ⁶*CIC nanoGUNE Consolider, IKERBASKE, Spain*

GH: Novel materials and devices II

July 12 (Thu), 11:00~12:30, Room 204 (2F)

Chairperson: K. Inomata (National Institute for Materials Science, Japan)

GH01 Bio-functional magnetic nanoparticles in biomedical applications

11:00 Herng-er Horng*, *National Taiwan Normal University, Taiwan*

GH02 Spin resolved measurements of single molecular magnets on surfaces

11:30 Jens Brede^{1*}, Jorg Schwobel¹, Regis Decker¹, Andrew Dilullo², Germar Hoffmann¹, Svetlana Klyatskaya³, Mario Ruben³ and Roland Wiesendanger¹, ¹*Institute of Applied Physics, University of Hamburg, Germany*; ²*Department of Physics and Astronomy, Ohio University, Germany*; ³*Institute of Nanotechnology, Karlsruhe Institute of Technology, Germany*

GH03 MgO tunnel junction magnetic field sensors at high frequencies

11:45 Mustafa Arikan^{1*}, Matthew Carter², Gang Xiao³ and Snorri Ingvarsson⁴, ¹*Science Institute, University of Iceland, Iceland*; ²*Micro Magnetics, Inc., USA*; ³*Department of Physics, Brown University, USA*; ⁴*Science Institute, University of Iceland, Iceland*

GH04 LaSrVMO₆: a compensated half metal or not?

12:00 Zhijian Wu and Jing Wang, *Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China*

GH05 Pressure effects on the magnetic properties of Emim[FeCl₄], a magnetic ionic liquid with antiferromagnetic ordering

12:15 A. Garcia-saiz¹, I. De Pedro¹, J. C. Gomez Sal¹, J. A. Blanco² and J. Rodriguez Fernandez^{1*}, ¹*CITIMAC, Fac. de Ciencias, Universidad de Cantabria, Spain*; ²*Departamento de Física, Universidad de Oviedo, Spain*

GI: Organic spintronics and carbon-based spintronics

July 12 (Thu), 11:00~12:30, Room 205 (2F)

Chairperson: Eiji Shikoh (Osaka University, Japan)

GI01 Magnetic proximity and spin behavior at organic semiconductor / ferromagnet interfaces towards molecular spintronics

11:00 Jagadeesh S. Moodera, *Massachusetts Institute of Technology, USA*

GI02 Spin specific transport properties of chiral molecules

11:30 Ron Naaman, *Dep. of Chemical Physics, Weizmann Institute, Israel*

- GJ03** Reversible and deterministic spin state switching of individual spincrossover molecules on a surface
11:45 Toshio Miyamachi^{1*}, Manuel Gruber², Vincent Davesne², Eric Beaurepaire² and Wulf Wulfhekel¹,

¹Physikalisches Institut, Karlsruhe Institute of Technology, Germany; ²Institute of Physics and Chemistry of Materials of Strasbourg (IPCMS), UMR 7504 UDS-CNRS, France

- GJ04** Graphene-based spintronic components

12:00 Lei Shen, Minggang Zeng and Yuanping Feng*, Physics, National University of Singapore, Singapore

- GJ05** Detection and manipulation of spin currents in graphene with non-magnetic electrodes

12:15 Ivan J. Vera-marun*, Vishal Ranjan, Paul J. Zomer, Marcos H. D. Guimaraes and Bart J. Van Wees, Physics of Nanodevices, Zernike Institute for Advanced Materials, University of Groningen, Netherlands

GJ: Intermetallic and other hard magnets

July 12 (Thu), 11:00~12:30, Room 206 (2F)

Chairperson: Yang-Ki Hong (The University of Alabama, USA)

- GJ01** Science and technology of modern permanent magnet materials

11:00 George C. Hadjipanayis*, Physics and Astronomy, University of Delaware, USA

- GJ02** Differential thermal analysis on MnBi in high magnetic fields up to 45 T

11:30 Keiichi Koyama^{1*}, Yoshifuru Mitsu², Eun Sang Choi³, Yuki Ikebara², Eric Palm³ and Kazuo Watanabe², ¹Kagoshima University, Japan; ²Tohoku University, Japan; ³National High Magnetic Field Laboratory, USA

- GJ03** Magnetization of Dy₂Fe₁₇ in fields up to 85 Tesla

11:45 Y. Skourski¹, A. V. Andreev², M. D. Kuz'min³, Y. Narumi⁴, K. Kindo⁵, N. V. Kudrevatykh⁶ and J. Wosnitza¹, ¹Dresden High Magnetic Field Laboratory, Germany; ²Institute of Physics ASCR, Prague, Czech Republic; ³IFW Dresden, Germany; ⁴IMR, Tohoku University, Sendai, Japan; ⁵ISSP, Tokyo University, Kashiwa, Japan; ⁶Ural Federal University, Ekaterinburg, Russia

- GJ04** Electrodeposited FePt films on Ag underlayer with high coercivity

12:00 Sirikanjana Thongmee, Department of Physics, Faculty of Science, Kasetsart University, Thailand

- GJ05** Magnetic properties of BaMg_{0.4}Al_{0.4}Fe_{11.2}O₁₉+SiO₂ nanocomposites for high frequency applications

12:15 K Sadhana and K Praveena, Materials Research Centre, Indian Institute of Science, Bangalore-560012, India

HA: Superconductivity V - Fe-based superconductors

July 12 (Thu), 15:30~17:00, Room101~3 (1F)

Chairperson: Laura H. Greene (University of Illinois at Urbana-Champaign, USA)

- HA01** Coexistence of competing orders in unconventional superconductors

15:30 Setsuko Tajima*, E. Uykur, K. Tanaka, T. Masui and S. Miyasaka, Dept. of Physics, Osaka University, Japan

- HA02** Ultrafast transient generation of spin density wave order in the normal state of BaFe₂As₂ driven by coherent lattice vibrations

16:00 Kyungwan Kim^{1*}, Alexej Pashkin², Hanjo Schafer², Markus Beyer², Michael Porer³, Thomas Wolf⁴, Christian Bernhard⁵, Jure Demsar², Rupert Huber³ and Alfred Leitenstorfer², ¹Department of Physics, Chonbuk National University, Korea; ²Department of Physics, University of Konstanz, Germany; ³Department of Physics, University of Regensburg, Germany; ⁴Karlsruhe Institute of Technology, Institute for Solid-State Physics, Germany; ⁵Department of Physics, University of Fribourg, Switzerland

- HA03** High- and low-energy ARPES study of spin-density wave order in FeTe single crystals and FeTeOx films
16:15 Martin Mansson^{1*}, Yuefeng Nie², Yasmine Sassa¹, Christof Niedermayer³, Genda Gu⁴, Masaki Kobayashi⁵,

Vladimir Strokov⁵, Johan Chang⁶, Magnus Berntsen⁷, Olof Gotberg⁷, Bastian M. Wojek⁷, Oscar Tjernberg⁷, Joseph I. Budnick² and Barrett O. Wells², ¹Lab. for Solid State Physics, ETH Zurich, Switzerland; ²Department of Physics, University of Connecticut, USA; ³Lab. for Neutron Scattering, Paul Scherrer Institut, Switzerland; ⁴Brookhaven National Laboratory, USA; ⁵Swiss Light Source, Paul Scherrer Institut, Switzerland; ⁶LSNS, EPFL Lausanne, Switzerland; ⁷Materials Physics, Royal Institute of Technology, KTH Stockholm, Sweden

- HA04** Magnetic fluctuations - a driving force for superconductivity Neutron scattering investigations in Fe-based superconductors
16:30 Alice Elizabeth Taylor^{1*}, Russell A. Ewings², Toby G. Perring², Simon J. Clarke³ and Andrew T Boothroyd⁴,

¹Department, University of Oxford, United Kingdom; ²ISIS Facility, Rutherford Appleton Laboratory, STFC, United Kingdom; ³Department of Chemistry, University of Oxford, United Kingdom; ⁴Department of Physics, University of Oxford, United Kingdom

- HA05** Low-energy quasiparticles probed by heat transport in the iron based superconductor lafepo

16:45 Michael Sutherland¹, J. Dunn², W. H. Toews³, Eoin O' Farrell⁴, James Analytis⁵, Ian Fisher⁵ and R. W. Hill³, ¹Department of Physics, University of Cambridge, United Kingdom; ²Department of Physics, University of Waterloo, Canada; ³Department of Physics, University of Waterloo, Canada; ⁴I.S.S.P., University of Tokyo, Japan; ⁵Geballe Laboratory for Advanced Materials and Department of Applied Physics, Stanford University, USA

HB: [Symposium]

High performance soft magnetic materials and their applications I

July 12 (Thu), 15:30~17:00, Room 106~8 (1F)

Chairperson: G. Herzer (Vacuumschmelze GmbH, Germany)

- HB01** Domains and magnetization processes in electrical steel

15:30 Rudolf Schaefer, Leibniz Institute for Solid State and Materials Research (IFW) Dresden, Germany

- HB02** Iron loss behaviors in 6.5 wt% grain-oriented silicon steel

16:00 Jongryoul Kim* and Heejong Jung, Department of Metallurgy and Material Science, Hanyang University, Korea

- HB03** FeCoB films with large saturation magnetization and high magnetic anisotropy field to attain high ferromagnetic resonance frequency

16:30 Shigeki Nakagawa, Dept. of Physical Electronics, Tokyo Institute of Technology, Japan

HC: Magnetism in s,p electron systems

July 12 (Thu), 15:30~17:00, Room 104~5 (1F)

Chairperson: Miyoung Kim (Ajou University, Korea)

- HC01** Magnetism where you least expect it

15:30 Priya Mahadevan, Department of Condensed Matter Physics and Material Science, S.N.Bose National Centre for Basic Sciences, India

- HC02 Exotic magnetism of s-electron cluster array: Ferromagnetism, ferrimagnetism and antiferromagnetism**
 16:00 Takehito Nakano¹, Nguyen Hoang Nam², Truong Cong Duan³, Duong Thi Hanh¹, Shingo Araki⁴ and Nozue Yasuo^{1*}, ¹Department of Physics, Graduate School of Science, Osaka University, Japan; ²Hanoi University of Science, Viet Nam; ³FPT University, Viet Nam; ⁴Graduate School of Natural Science and Technology, Okayama University, Japan
- HC03 Spin-dependent molecular arrangement of O₂-O₂ dimer in nanoporous metal-organic solids**
 16:30 Tatsuo C. Kobayashi¹, Akihiro Hori², Yoshiki Kubota³, Akira Matsuo⁴, Koichi Kindo⁴, Jungeun Kim⁵, Masaki Takata², Hirotoshi Sakamoto⁶, Ryotaro Matsuda⁶ and Susumu Kitagawa⁷, ¹Department of Physics, Okayama University, Japan; ²RIKEN SPring-8 Center, Japan; ³Department of Physical Science, Osaka Prefecture University, Japan; ⁴ISPS, The University of Tokyo, Japan; ⁵JASRI/SPRING-8, Japan; ⁶ERATO, JST, Japan; ⁷ICEMS, Kyoto University, Japan
- HC04 Indications for a field-induced 2D collectively-coupled dimer state in nitronyl-nitroxid biradicals**
 16:45 Michael Lang^{1*}, Bernd Wolf¹, Pham Thanh Cong¹, Ulrich Tutsch¹, Martin Baumgarten², Yulia Borozdina², Dominik Strassel³ and Sebastian Eggert³, ¹Physics Institute, Goethe-University Frankfurt (M), SFB/TR 49, D-60438 Frankfurt (M), Germany; ²Max-Planck-Institute for Polymer Research, SFB/TR 49, D-55128 Mainz, Germany; ³Physics Department and Research Center OPTIMAS, University of Kaiserslautern, D-67663 Kaiserslautern, Germany

HD: Spin waves I

July 12 (Thu), 15:30~17:00, Room 109~10 (1F)

Chairperson: Hermann Dürr (Stanford University, USA)

- HD01 Magnon caloritronics**
 15:30 Burkard Hillebrands*, Vitaliy Vasyuchka, Bjorn Obry and Aleksandr Serga, Department of Physics, TU Kaiserslautern, Germany
- HD02 Temperature dependence of spin wave resonance frequency in a magnetostatic surface wave mode**
 16:00 Jae Hyun Kwon¹, Sankha Subhra Mukherjee² and Hyunsoo Yang^{1*}, ¹Electrical and Computer Engineering, National University of Singapore, Korea; ²Electrical and Computer Engineering, National University of Singapore, India
- HD03 Nanoscale spin wave switches and phase shifters**
 16:15 Yat-yin Au and Volodymyr Kruglyak*, University of Exeter, United Kingdom
- HD04 Optically induced tunable magnetization dynamics in nanoscale Co antidot lattices**
 16:30 Ruma Mandal, Susmita Saha, Dheeraj Kumar, Saswati Barman, Semanti Pal, Kaustuv Das, Arup Kumar Raychaudhuri, Yasuhiro Fukuma, Yoshichika Otani and Anjan Barman*, Condensed Matter Physics and Material Sciences, S. N. Bose National Centre For Basic Sciences, India
- HD05 Plasmonic and quantum plasmonic enhancement of magneto-optics**
 16:45 Alexey P. Vinogradov^{1*}, Denis G. Baranov¹ and Alexander A. Lisyansky², ¹ITAE RAS, Russia; ²Department of Physics, Queens College of the City University of New York, USA

HE: Metal spintronics II

July 12 (Thu), 15:30~17:00, Room 201 (2F)

Chairperson: X. Jin (Fudan University, China)

- HE01 Pure spin current generation using highly spin polarized Co_xFeSi electrodes**
 15:30 Takashi Kimura*, Soichiro Oki, Shinya Yamada, Masanobu Miyao and Kohei Hamaya, Kyushu University, Japan

- HE02 Highly reproducible lateral spin valves for the study of spin injection in metals**
 15:45 Estitxu Villamor¹, Miren Isasa¹, Luis E. Hueso² and Felix Casanova^{2*}, ¹CIC nanoGUNE, Spain; ²CIC nanoGUNE and IKERBASQUE, Basque Foundation for Science, Spain
- HE03 Extrinsic SHE induced by small impurities in copper**
 16:00 Yoshichika Otani*, Yasuhiro Niimi, Yohei Kawanishi and Dahai Wei, ISSP, University of Tokyo, Japan
- HE04 Spin Injection at the LaAlO₃/SrTiO₃ Interface**
 16:30 Nicolas Reyren, Manuel Bibes, Edouard Lesne*, Jean - Marie George, Cyril Deranlot, Sophie Collin, Agnes Barthelemy and Henri Jaffres, Unite Mixte de Physique CNRS/Thales, France
- HE05 Coherence in collective spin precession in lateral spin valves**
 16:45 Hiroshi Idzuchi^{1*}, Yasuhiro Fukuma² and Yoshichika Otani³, ¹ISSP, U Tokyo; ASI RIKEN, Japan; ²ASI RIKEN, Department of Computer Science and Electronics, Kyushu Institute of Technology, Japan; ³ISSP U Tokyo; ASI RIKEN, Japan

HF: Spin transfer torque switching

July 12 (Thu), 15:30~17:00, Room 202 (2F)

Chairperson: H. Swagten (Eindhoven University of Technology, Netherlands)

- HF01 Bias-dependence of the spin-transfer torques in MgO-based magnetic tunnel junctions**
 15:30 Soeren Boyn¹, Rie Matsumoto¹, Joao Sampaio¹, Vincent Cros¹, Julie Grollier¹, Akio Fukushima², Hitoshi Kubota², Kay Yakushiji² and Shinji Yuasa², ¹Unite Mixte de Physique CNRS/Thales, France; ²National Institute of Advanced Industrial Science and Technology, Japan
- HF02 Spin torque assisted magnetization switching in thermally activated region**
 15:45 Tomohiro Taniguchi and Hiroshi Imamura*, Nanosystem Research Institute, National Institute of Advanced Industrial Science and Technology, Japan
- HF03 Joule heating and spin-transfer torque investigated on the atomic scale**
 16:00 Stefan Krause*, Gabriela Herzog, Anika Schlenhoff, Andreas Sonntag and Roland Wiesendanger, Institute of Applied Physics, University of Hamburg, Germany
- HF04 Spin-transfer torque and joule heating of field-emitted electrons**
 16:15 Anika Schlenhoff*, Andreas Sonntag, Stefan Krause and Roland Wiesendanger, Institute of Applied Physics, University of Hamburg, Germany
- HF05 Perpendicular spin torque at high bias in MgO-based magnetic tunnel junctions**
 16:30 Kyung-jin Lee^{1*}, Seung-young Park², Younghun Jo² and Soo-man Seo¹, ¹Korea University, Korea; ²Korea Basic Science Institute, Korea

HG: Magnetometry in nano-scale

July 12 (Thu), 15:30~17:00, Room 203(2F)

Chairperson: Massimo Pasquale (INRIM Torino, Italy)

- HG01 Recent progress in spin sem**
 15:30 Kazuyuki Koike, Division of Physics, Graduate School of Science, Hokkaido University, Japan
- HG02 Asymmetries in the formation process of magnetic vortex states in a permalloy nanodisk**
 16:00 Mi-young Im¹, Tomonori Sato², Yoshinobu Nakatani², Keisuke Yamada³, Teruo Ono³, Shinya Kasai⁴, Andreas Vogel⁵, Guido Meier⁵ and Peter Fischer¹, ¹LBNL/CXRO, USA; ²University of Electro-Communications, Japan; ³Kyoto University, Japan; ⁴NIMS, Japan; ⁵Universitat Hamburg, Germany

HG03 Magnetization switching utilizing the magnetic exchange interaction

16:30 Rene Schmidt*, Alexander Schwarz and Roland Wiesendanger, *Institute of Applied Physics, University of Hamburg, Germany*

HG04 X-ray spectroscopy in pulsed high magnetic fields

16:45 Cornelius Strohm^{1*}, Olivier Mathon¹, Marcin Sikora², Peter J. E. M. Van Der Linden¹, Thomas Roth¹, Tom T. A. Lummen³, Paul H. M. Van Loosdrecht⁴ and Rudolf Rueffer⁵. ¹*European Synchrotron Radiation Facility, 6 rue Jules Horowitz 38000 Grenoble, France;* ²*Department of Solid State Physics, Faculty of Physics and Applied Computer Science, AGH University of Science and technology, Krakow, Poland;* ³*Department of Materials Science and Engineering, The Pennsylvania State University, 121 Steidle Building, University Park, PA, USA;* ⁴*Zernike Institute for Advanced Materials, University of Groningen, Nijenborgh 4, 9747 AG Groningen, Netherlands;* ⁵*European Synchrotron Radiation Facility, France*

HH: Magnetometry in macro-scale

July 12 (Thu), 15:30~17:00, Room 204 (2F)

Chairperson: Derac Son (Hannam University, Korea)

HH01 Recent developments in magnetic measurements: From technical method to physical knowledge

15:30 Vittorio Basso, Fausto Fiorillo*, Alessandro Magni, Cinzia Beatrice, Ambra Caprile, Michaela Kuepferling and Carlo Paolo Sasso, *Istituto Nazionale di Ricerca Metrologica, Italy*

HH02 So, you need reliable magnetic measurements you can use with confidence? How the magnetic

16:00 measurement capabilities at NPL can help
Michael Hall, *National Physical Laboratory, United Kingdom*

HH03 Application of pulsed eddy current technique to inspect the pipeline of nuclear plants

16:30 D. G Park, *korea atomic energy research institute, Korea*

HI: Topological insulators I

July 12 (Thu), 15:30~17:00, Room 205 (2F)

Chairperson: Han Woong Yeom (POSTECH, Korea)

HI01 Probing the exotic surface states in topological insulators and superconductors

15:30 Yoichi Ando*, *ISIR, Osaka University, Japan*

HI02 Electronic structure study of bulk HgTe via angle resolved photoemission spectroscopy

*Withdrawn Chang Liu¹, Suyang Xu¹, Madhab Neupane¹, Helin Cao², Ireneusz Miotkowski², L. Andrew Wray³, Hsin Lin⁴, R. S. Markiewicz⁴, A. Bansil⁴, Yong P. Chen² and M. Zahid Hasan¹, ¹*Joseph Henry Laboratory and Department of Physics, Princeton University, USA;* ²*Department of Physics, Purdue University, USA;* ³*Advanced Light Source, Lawrence Berkeley National Laboratory, USA;* ⁴*Department of Physics, Northeastern University, USA*

HI03 Hidden topological order in URu₂Si₂

16:00 Tanmoy Das, *Theoretical Division, Los Alamos National Laboratory, USA*

HI04 Robustness of 1D topological superconductors with Majorana edge states against lattice modulation

16:15 Masaki Tezuka* and Norio Kawakami, *Department of Physics, Kyoto University, Kitashirakawa, Sakyo-ku, Kyoto 606-8502, Japan*

HI05 Floquet theory of photo-induced topological phase transitions: Application to graphene

16:30 Takashi Oka, *The University of Tokyo, Japan*

HJ: 4d and 5d compounds

July 12 (Thu), 15:30~17:00, Room 206 (2F)

Chairperson: Kibong Lee (POSTECH, Korea)

HJ01 Strong coupling of spin, orbital and lattice degrees of freedom in Ru oxides

15:30 Je Geun Park, *Department of Physics & Astronomy, Seoul National University, Korea*

HJ02 Competing magnetic interactions in eta-carbide-type transition-metal compounds: New class of itinerant-electron frustrated magnets

16:00 Hiroyuki Nakamura*, Takeshi Waki and Yoshikazu Tabata, *Department of Materials Science and Engineering, Kyoto University, Japan*

HJ03 Long-time variation of magnetic structure in (Ce-La)Ir₂Si₂: Effect of randomness

16:15 Kiyoichiro Motoya^{1*}, Taketo Moyoshi¹ and Masaaki Matsuda², ¹*Department of Physics, Faculty of Science and Technology, Tokyo University of Science, Japan;* ²*Quantum Condensed Matter Division, Oak Ridge National Laboratory, USA*

HJ04 Influence of symmetry on Sm magnetism studied in SmIr₂Si₂ polymorphs

16:30 Michal Valiska*, Jiri Pospisil, Martin Divis, Jan Prokleska and Vladimir Sechovsky, *DCMP, Charles University, Ke Karlovu 5, 121 16, Prague, Czech Republic*

HJ05 Unconventional thermal expansion of BaIrO₃ investigated by temperature dependent x-ray and neutron diffractions

16:45 Jinwon Jeong¹, Bin Chang¹, Dahee Jung¹, Han-jin Noh^{1*} and Seongsu Lee², ¹*Department of Physics, Chonnam National University, Korea;* ²*Korea Atomic Energy Research Institute, Korea*

IA: Non-fermi liquids and quantum phase transitions III

July 12 (Thu), 17:20~18:50, Room 101~3 (1F)

Chairperson: J. W. Allen (University of Michigan, USA)

IA01 A quantum phase transition hidden beneath the superconducting dome of iron-pnictides

17:20 Yuji Matsuda, *Physics, Kyoto University, Japan*

IA02 Re-entrant quantum criticality in pressurized Yb₂Pd₂Sn and Yb₂Pd₂In_{1-x}Sn_x

17:50 Tahir Rao Khan¹, Herwig Michor¹, Ernst Bauer^{1*}, Rustem Khasanov², Alex Amato³, Veljko Zlatic⁴, Ivica Aviani⁴, Mydeen Kamal⁵, Michael Nicklas⁵ and Mauro Giovannini⁶, ¹*Institute of Solid State Physics, Vienna University of Technology, Austria;* ²*Laboratory for Muon-Spin Spectroscopy, Paul Scherrer Institute, Switzerland;* ³*Laboratory for Muon-Spin Spectroscopy, PSI, Paul Scherrer Institute, Switzerland;* ⁴*Institute of Physics, Zagreb, Croatia;* ⁵*Max Planck Institute for Chemical Physics of Solids, Dresden, Germany;* ⁶*Dipartimento di Chimica e Chimica Industriale, University of Genova, Italy*

IA03 Coupled fermi-bose renormalization group flow for a two-flavor spin-fermion model close to its antiferromagnetic quantum critical point

18:05 Junhyun Lee, Philipp Strack and Subir Sachdev*, *Department of Physics, Harvard University, USA*

IA04 Magnetism and filling-controlled mott transition in strongly spin-orbit-coupled iridium oxide

18:20 Kenya Ohgushi^{1*}, Jun-ichi Yamaura¹, Hiroyuki Ohsumi², Soshi Takeshita², Hidenori Takagi³, Taka-hisa Arima³ and Yutaka Ueda¹, ¹*Institute for Solid State Physics, University of Tokyo, Japan;* ²*RIKEN SPring-8 Center, Japan;* ³*University of Tokyo, Japan*

IA05 Magnetic field tuned QCP in YbPtBi

18:35 E. D. Mun¹, H. Kim¹, M. A. Tanatar¹, G. M. Schmiedeshoff², J. H. Park³, T. Murphy³, N. Dilley⁴, S. L. Bud'ko^{1*}, R. Prozorov¹ and P. C. Canfield¹, ¹Ames Laboratory/Iowa State University, Ames, IA, USA; ²Occidental College, Los Angeles, CA, USA; ³NHMFL, Tallahassee, FL, USA; ⁴Quantum Design Inc., San Diego, CA, USA

IB: [Symposium]**High performance soft magnetic materials and their applications II**

July 12 (Thu), 17:20~18:50, Room 106~8 (1F)

Chairperson: Kyung-Ho Shin (KIST, Korea)

IB01 Field-annealed Fe-Ni-Nb-B amorphous and nanocrystalline alloys for magnetic sensor applications

17:20 Marek Varga¹, Jozef Marcin¹, Marek Capik¹, Jozef Kovac¹, Peter Svec² and Ivan Skorvanek^{1*}, ¹Institute of Experimental Physics SAS, Kosice, Slovakia; ²Institute of Physics SAS, Bratislava, Slovakia

IB02 Amorphous and nanocrystalline magnetic materials: Research and production in china

17:50 Shaoxiong Zhou, China Central Iron and Steel Research Institute Group, Advanced Technology and Materials Co., Ltd., China

IB03 Recent status of soft magnetic material applications for renewable energy and eco-friendly vehicle

18:20 In-bum Jeong, Changsung Corporation, Korea

IC: Magnetic phase transition

July 12 (Thu), 17:20~18:50, Room 104~5 (1F)

Chairperson: Eugenio Coronado (University of Valencia, Spain)

IC01 Random fields in molecular magnets

17:20 Myriam P. Sarachik*, Physics Department, City College of New York-CUNY, New York, NY 10031, USA

IC02 Stability of incommensurate field-induced magnetic order via site-disorder

17:50 Francesco Casola^{1*}, Toni Shiroka¹, Shuang Wang², Christian Rüegg³, Henrik Moodysson Rønnow², Michael Grbic⁴, Mladen Horvatic⁴, Steffen Krämer⁴, Sutirtha Mukhopadhyay⁴, Claude Berthier⁴, Hans Rudolf Ott¹ and Joël Mesot⁵, ¹Laboratorium für Festkörperphysik, ETH Hönggerberg, CH-8093 Zürich, Switzerland; ²Laboratory for Quantum Magnetism, Ecole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne, Switzerland; ³Laboratory for Neutron Scattering, Paul Scherrer Institute, CH-5232 Villigen PSI, Switzerland; ⁴Laboratoire National des Champs Magnétiques Intenses, LNCMI - CNRS (UPR3228), UJF, UPS and INSA, BP 166, 38042 Grenoble Cedex 9, France; ⁵Paul Scherrer Institute, CH-5232 Villigen PSI, Switzerland

IC03 Low-temperature heat transport and field-induced quantum phase transitions of spin gapped quantum magnets

18:05 X. F. Sun^{1*}, C. Fan¹, L. M. Chen², W. P. Ke Ke¹, Z. Y. Zhao¹ and X. M. Wang¹, ¹Hefei National Laboratory for Physical Sciences at the Microscale, University of Science and Technology of China, China; ²Department of Physics, University of Science and Technology of China, China

IC04 Review talk about spin superfluidity

18:20 Yury Bunkov, Institut NEEL, France

IC05 The spin-1/2 Heisenberg antiferromagnetic chain experimental confirmation of 2 and 4 spinon terms

18:35 Bella Lake^{1*}, D. Alan Tennant¹, Jean-sebastien Caux² and Christopher D Frost³, ¹Helmholtz Zentrum Berlin fur Materialien und Energie, Germany; ²Instituut voor Theoretische Fysica, Universiteit van Amsterdam, Netherlands; ³ISIS Facility, Rutherford Appleton Laboratory, United Kingdom

ID: Vortex dynamics II

July 12 (Thu), 17:20~18:50, Room 109~10 (1F)

Chairperson: Guido Meier (Universität Hamburg, Germany)

ID01 X-ray microscopy of nanoscale spin dynamics

17:20 Peter Fischer, CXRO, LBNL, USA

ID02 Non linear spin transfer induced vortex dynamics

17:50 V. Cros¹, A. Dussaux¹, P. Bortolotti¹, E. Grimaldi¹, J. Grollier¹, A.v. Khvalkovskiy², K.a Zvezdin³, A. Fukushima⁴, H. Kubota⁴, K. Yakushiji⁴, S. Yuasa⁴, K. Ando⁴ and A. Fert¹, ¹Unité Mixte de Physique CNRS/Thales, France; ²Unité Mixte de Physique CNRS/Thales and A.M. Prokhorov GPI, Moscow and Istituto PM., Torino, France; ³Istituto PM., Torino, and A.M. Prokhorov GPI, Moscow, Russia; ⁴AIST, Tsukuba, Japan

ID03 Study of spin transfer induced coupled vortices dynamics in a single spin-valve

18:20 Nicolas Locatelli¹, Paolo Bortolotti¹, Alexey Khvalkovskiy², Grisha Avanesyan³, Vladimir V. Naletov⁴, Julie Grollier¹, Gregoire De Loubens⁴, Konstantin Zvezdin³, Olivier Klein⁴, Vincent Cros^{1*} and Albert Fert¹, ¹Unité Mixte de Physique CNRS-Thales et Univ Paris-Sud, Palaiseau, France; ²Grandis Inc, Milpitas, CA, USA; ³A.M. Prokhorov General Physics Institute of RAS, Moscow, Russia; ⁴Service de Physique de l'Etat Condensé, CEA, Gif-sur-Yvette, France

ID04 Collective excitation of magnetostatically coupled two-adjacent magnetic vortices and their relative phase difference

18:35 Hiroaki Fujimori¹, Yasuhiro Niimi¹, Satoshi Sugimoto¹, Shinya Kasai² and Yoshichika Otani^{1*}, ¹ISSP, University of Tokyo, Japan; ²National Institute for Material Science, Japan

IE: Domain wall motion II

July 12 (Thu), 17:20~18:50, Room 201 (2F)

Chairperson: M. Stiles (National Institute of Standards and Technology, USA)

IE01 Spin-orbit coupling induced spin torques in diluted magnetic semiconductors

17:20 Hang Li, Fatih Dogan and Aurelien Manchon*, King Abdullah University of Science and Technology, Saudi Arabia

IE02 Spin orbit torque assisted domain wall depinning in Pt/Co/Pt

17:35 Elena Mure*, Pascal P. Haazen, Jeroen H. Franken, Henk J. Swagten and Bert Koopmans, Eindhoven University of Technology, Netherlands

IE03 Piezo-electric control of the motion of a single domain wall

17:50 Elisa De Ranieri¹, Pierre Roy¹, Dong Fang¹, Erin Vehstedt², Andrew C. Irvine³, Dominik Heiss³, Richard Campion⁴, Tomas Jungwirth⁵ and Joerg Wunderlich^{6*}, ¹Hitachi Cambridge Laboratory, JJ Thomson Avenue, Cambridge, CB3 0HE, UK, United Kingdom; ²Department of Physics, Texas A&M University, College Station, Texas 77843-4242, USA; ³Microelectronics Group, Cavendish Laboratory, University of Cambridge, JJ Thomson Avenue, Cambridge, United Kingdom; ⁴School of Physics and Astronomy, University of Nottingham, United Kingdom; ⁵Institute of Physics ASCR, v.v.i., Cukrovarnicka 10, 162 53 Praha 6, Czech Republic; ⁶(a) Hitachi Cambridge Lab, Cambridge, UK (b) Institute of Physics ASCR, Prague, Czech Republic, United Kingdom

IE04 Domain wall manipulation by spin currents in magnetic tunnel junctions

18:20 Julie Grollier¹, Peter Metaxas¹, Joao Sampaio¹, Rie Matsumoto¹, Andre Chanthbouala¹, Alexey Khvalkovskiy¹, Vincent Cros¹, Abdelmadjid Anane¹, Albert Fert¹, Konstantin Zvezdin², Akio Fukushima³, Hitoshi Kubota³, Kay Yakushiji³ and Shinji Yuasa³, ¹Unité Mixte de Physique CNRS/Thales, France; ²Istituto P.M. s.r.l., Italy; ³National Institute of Advanced Industrial Science and Technology, Japan

IF: Magnetic tunnel junctions

July 12 (Thu), 17:20~18:50, Room 202 (2F)

Chairperson: J. Moodera (Massachusetts Institute of Technology, USA)

IF01 Large magnetoresistance in antiferromagnet tunnel junctions

17:20 Byong-guk Park^{1*}, Joerg Wunderlich², X. Marti³, J. Hayakawa⁴, H. Takahashi² and T. Jungwirth⁵, ¹Material Science and Technology, KAIST, Korea; ²Hitachi Cambridge Laboratory, United Kingdom; ³Faculty of Mathematics and Physics, Charles University, Czech Republic; ⁴Hitachi Central Laboratory, Japan; ⁵Institute of Physics, ASCR, Czech Republic

IF02 A first-principles study on spin-dependent tunneling conductance in magnetic tunnel junctions with spinel-type MgAl₂O₄ barrier

17:50 Yoshio Miura^{1*}, Shingo Muramoto², Kazutaka Abe¹ and Masafumi Shirai¹, ¹RIEC & CSIS, Tohoku University, Japan; ²RIEC, Tohoku University, Japan

IF03 Enhanced tunnel magnetoresistance in magnetic tunnel junctions with an epitaxial Mg-Al-O barrier

18:05 Hiroaki Sukegawa, Seiji Mitani, Tomohiko Niizeki, Tadakatsu Ohkubo, Koichiro Inomata and Kazuhiro Hono, Magnetic Materials Unit, National Institute for Materials Science (NIMS), Japan

IF04 The memristive magnetic tunnel junction as a nanoscopic synapse-neuron system

18:20 Andy Thomas, Patryk Krzyszczko, Gunter Reiss, Jana Munchenberger and Markus Schafers, Physics, Bielefeld University, Germany

IF05 Tunnel magnetoresistance in perpendicularly magnetized Co₂FeAl/MgO/CoFeB magnetic tunnel junctions

18:35 Zhenchao Wen*, Hiroaki Sukegawa, Shinya Kasai, Masamitsu Hayashi, Seiji Mitani and Koichiro Inomata, National Institute for Materials Science (NIMS), Japan

IG: Valence fluctuations II

July 12 (Thu), 17:20~18:50, Room 203 (2F)

Chairperson: Ernst Bauer (Vienna University of Technology, Austria)

IG01 Transport anomalies due to critical valence fluctuations

17:20 Kazumasa Miyake, Department of Materials Engineering Science, Osaka University, Japan

IG02 Fluctuations and quantum criticality in Eu ternary pnictides

17:50 Yuriy Vladimirovich Goryunov^{1*} and Alexandr Nikolaevich Nateprov², ¹Russian Academy of Sciences, Kazan Physical-Technical Institute of the Russian Academy of Sciences, Russia; ²Academy of Sciences of Moldova, Institute of Applied Physics, Moldova

IG03 Synchrotron x-ray spectroscopy study on the valence state in α - and β -YbAl₃

18:05 and high magnetic fields Yasuhiro H. Matsuda^{1*}, Toshiyuki Nakamura¹, Kentaro Kuga¹, Satoru Nakatsuji¹, Shinji Michimura², Toshiya Inami², Naomi Kawamura³ and Masaichiro Mizumaki³, ¹Institute for Solid State Physics, University of Tokyo, Japan; ²Japan Atomic Energy Agency, Japan; ³SPRING-8/JASRI, Japan

IG04 Metal-Insulator crossover accompanied by the dual nature of 5f electrons with localized and itinerant character in US2

18:20 Naoto Metoki¹, Etsushi Yamamoto², Hironori Sakai², Yoshinori Haga², Tatsuma D Matsuda² and Shugo Ikeda², ¹QBus, JAEA, Japan; ²ASRC, JAEA, Japan

IG05 Valence transition induced by pressure and magnetic field in antiferromagnet EuRh₂Si₂

18:35 Akihiro Mitsuda*, Suguru Hamano and Hirofumi Wada, Department of Physics, Kyushu University, Japan

IH: Surface and interface effects II

July 12 (Thu), 17:20~18:50, Room 204 (2F)

Chairperson: Seiji Mitani (NIMS, Japan)

IH01 Orbital ordering and multiphase separation at manganite interfaces

17:20 Sergio Valencia¹, Deflent Schmitz¹, Luis Pena², Zorica Konstantinovic², Lluis Balcells², Regina Galceran², Felipe Sandiumenge², Marie-jose Casanove³ and Benjamin Martinez^{2*}, ¹Helmholtz-Zentrum-Berlin für Materialien und Energie, BESSY, Germany; ²Magnetic Materials and Functional Oxides, ICMAB - CSIC, Spain; ³Centre d'Elaboration de Matériaux et d'Etudes Structurales, CNRS - CEMES, France

IH02 Conical spin-spiral state in an ultra-thin film driven by higher-order spin interactions

17:35 Yasuo Yoshida^{1*}, Silke Schroeder², Paolo Ferriani², David Serrate³, Kirsten Von Bergmann⁴, Andre Kubetzka⁴, Stefan Heinze² and Roland Wiesendanger⁴, ¹Institute for solid state physics, The University of Tokyo, Japan; ²Institute for Theoretical Physics and Astrophysics, Christian-Albrechts-Universität zu Kiel, Germany; ³Instituto de Nanociencia de Aragón, Universidad de Zaragoza, Spain; ⁴Institute of Applied Physics, University of Hamburg, Germany

IH03 Non-collinear magnetic ground state in finite metallic chains

17:50 Matthias Menzel^{1*}, Yury Mokrousov², Robert Wieser¹, Jessica E. Bickel¹, Elena Vedmedenko¹, Stefan Blugel², Stefan Heinze³, Kirsten Von Bergmann¹, Andre Kubetzka¹ and Roland Wiesendanger¹, ¹Institute of Applied Physics, University of Hamburg, Germany; ²Forschungszentrum Julich, Germany; ³Institute of Theoretical Physics and Astrophysics, University of Kiel, Germany

IH04 Magnetism and the thermodynamics of Fe-Pt surface alloy formed at Pt(110) surface

18:05 Byong Sun Chun, Wondong Kim and Chanyong Hwang*, Korea Research Institute of Standards and Science, Korea

IH05 A study of antiferromagnetic/ferromagnetic systems using x-ray magnetic dichroism

18:20 Z. Q. Qiu¹ and Chanyong Hwang^{2*}, ¹Dept. of Physics, University of California at Berkeley, Berkeley, CA 94720, USA; ²Korea Research Institute of Standards and Science, Yuseong, Daejeon 305-340, Korea

IH06 Magnetic properties and microscopic structures of ultrathin Co/ $\sqrt{3}\times\sqrt{3}$ -R30°-Ag/Si(111) films

18:35 Jyh-shen Tsay¹, Tsu-yi Fu^{1*}, Chih-kuei Kao¹, Xiao-lan Huang¹, Jyh-ron Shue¹, Wei-hsiang Chen¹ and Yeong-der Yao², ¹physics, National Taiwan Normal University, Taiwan; ²physics, Academia Sinica, Taiwan

II: Topological insulators II

July 12 (Thu), 17:20~18:50, Room 205 (2F)

Chairperson: Hu-Jong Lee (POSTECH, Korea)

II01 Giant anomalous Hall effect in magnetic topological insulator17:20 Qi-kun Xue, *Tsinghua University, China***II02 A rich rashba system created on the surface of a topological insulator**17:50 Philip King^{1*}, A De La Torre¹, Felix Baumberger¹, M. Bianchi², R. Hatch², Philip Hofmann², M.S. Bahramy³, R. Arita³, N. Nagaosa³, J.I. Mi⁴, B. Iversen⁴ and G. Balakrishnan⁵, ¹*School of Physics and Astronomy, University of St Andrews, United Kingdom*; ²*Department of Physics and Astronomy, Aarhus University, Denmark*; ³*Correlated Electron Research Group, RIKEN-ASL, Japan*; ⁴*Department of Chemistry, Aarhus University, Denmark*; ⁵*Department of Physics, University of Warwick, United Kingdom***II03 From topological semimetals towards insulators. First-principles study**18:20 Stanislav Chadov^{1*}, Claudia Felser¹, Kristina Chadova², Diemo Koderitzsch² and Hubert Ebert², ¹*Dept. Inorganic Chemistry, Max-Planck-Institute for Chemical Physics of Solids, Dresden, Germany*; ²*Dept. Chemistry and Biochemistry, Ludwig Maximilians University, Munich, Germany***II04 Engineering and manipulating topological qubits in 1D quantum wires**18:35 Panagiotis Kotetes¹, Alexander Shnirman² and Gerd Schon¹, ¹*Institut für Theoretische Festkörperphysik, Karlsruhe Institute of Technology, Germany*; ²*Institut für Theorie der Kondensierten Materie, Karlsruhe Institute of Technology, Germany***IJ: Ferrites and other materials**

July 12 (Thu), 17:20~18:50, Room 206 (2F)

Chairperson: J. P. Attfield (University of Edinburgh, UK)

IJ01 Magnetic structure of iron borate SmFe₃(BO₃)₄: A neutron diffraction study17:20 Clemens Ritter^{1*}, Anatolii Pankrats², Irina Gudim² and Alexander Vorotynov², ¹*Institut Laue Langevin, Boite Postale 156, F-38042 Grenoble, France*; ²*Kirenskii Institute of Physics, Siberian Branch of RAS, Krasnoyarsk, 660036, Russia***IJ02 Preparation and characterization of Sr₃Fe₂O_{7-x} for different oxygen contents**17:35 Darren Peets^{1*}, Junghwa Kim¹, Andrey Maljuk², Chengtian Lin¹ and Bernhard Keimer¹, ¹*Max-Planck-Institut für Festkörperforschung, Germany*; ²*IFW Dresden, Helmholtzstr. 20, D-01069 Dresden, Germany***IJ03 The magnetic structures of CoPS₃ and NiPS₃**17:50 Andrew Wildes^{1*}, Virginie Simonet², Garry McIntyre³, Eric Ressouche⁴, Emmanuelle Suard¹, Giulio Pepe⁵, Maxim Avdeev³ and Trevor Hicks⁶, ¹*Institut Laue-Langevin, 6 rue Jules Horowitz, BP 156, 38042 Grenoble, France*; ²*Institut Néel, 25 avenue des Martyrs, BP 166, 38042 Grenoble cedex 9, France*; ³*Bragg Institute, ANSTO, Locked Bag 2001, Kirrawee DC NSW 2232, Australia*; ⁴*INAC/SPSMS-MDN, CEA/Grenoble, 17 rue des Martyrs, 38054 Grenoble Cedex 9, France*; ⁵*Department of Physics & Astronomy, University College London, Gower Street, London, WC1E 6BT, United Kingdom*; ⁶*School of Physics, Monash University, PO Box 27, Vic 3800, Australia***IJ04 Magnetic properties in Fe-doped LnCo_{1-x}Fe_xAsO (Ln=La, Sm) systems**18:05 Yuke Li¹, Chenyi Shen², Yongkang Luo², Chen Lv², Qian Tao², Jianhui Dai¹, Guanghan Cao² and Zhen Xu^{2*}, ¹*Department of Physics, Hangzhou Normal University, China*; ²*Department of Physics, Zhejiang University, China***IJ05 Symmetry argument of cyano-bridged copper-molybdenum complexes**18:20 Jun Ohara* and Shoji Yamamoto, *Department of Physics, Hokkaido University, Japan***IJ06 Phase diagram of the dzyaloshinskii-moriya helimagnet Ba₂CuGe₂O₇ in canted magnetic fields**18:35 Sebastian Clemens Muehlbauer^{1*}, Severian Gvasaliya², Eric Ressouche³, Ekaterina Pomjakushina⁴ and Andrey Zheludev², ¹*Neutron Scattering and Magnetism Group, Laboratory for Solid State Physics, ETH Zurich, Switzerland*; ²*Neutron Scattering and Magnetism Group, Laboratory for Solid State Physics, ETH Zurich, Switzerland*; ³*INAC/SPSMS-MDN, CEA/Grenoble, France*; ⁴*Laboratory for Developments and Methods, Paul Scherrer Institute, Switzerland***JA: Superconductivity VI - Fe-based and other superconductors**

July 13 (Fri), 09:00~10:30, Room 101~3 (1F)

Chairperson: T. Tohyama (Kyoto University, Japan)

JA01 Close relationship between superconductivity and the bosonic mode in Ba_{0.6}K_{0.4}Fe₂As₂09:00 A pairing glue for superconductivity
Hai-hu Wen*, *Nanjing University, China***JA02 Broken time-reversal symmetry superconducting state in LiFeAs**09:30 Gang Li¹, Ricardo R. Urbano¹, C. Tarantini², Bin Lv³, Phil Kuhns¹, Arneil P. Reyes¹, David Larbalestier², Alexander Gurevich⁴, Ching-wu Chu³ and Luis Balicas^{1*}, ¹*Condensed Matter Sciences, NHMFL, USA*; ²*Center for Applied Superconductivity, NHMFL, USA*; ³*Texas Center for Superconductivity, University of Houston Houston, Texas, USA*; ⁴*Physics Dept., Old Dominion University, USA***JA03 Observation of anomalous magneto-resistance behavior near the in-plane upper critical field in Sr(Fe,Ni)₂As₂ single crystals**09:45 Seunghyun Khim¹, Bumsung Lee¹, Ki-young Choi¹, Kyung Jun Yoo¹, Ji Hoon Shim² and Kee Hoon Kim^{1*}, ¹*Department of Physics and Astronomy, Seoul National University, Korea*; ²*Department of Chemistry, Pohang University of Science and Technology, Korea***JA04 Superconductivity in an Einstein solid: A_xV₂Al₂₀ (A = Ga, Al)**10:00 Atsuhi Onosaka, Junichi Yamaura, Yoshihiko Okamoto and Zenji Hiroi*, *ISSP, University of Tokyo, Japan***JA05 Non-unitary triplet pairing in the centrosymmetric superconductor LaNiGa₃**10:15 Adrian Hillier^{1*}, Jorge Quintanilla², Bayan Mazidian³, James Annett⁴ and Robert Cywinski⁵, ¹*ISIS facility, STFC, Oxfordshire, United Kingdom*; ²*SEPnet and Hubbard Theory Consortium, School of Physical Sciences, University of Kent, Canterbury CT2 7NH, United Kingdom*; ³*H. H. Wills Physics Laboratory, University of Bristol, Tyndall Avenue, Bristol BS8 1TL, United Kingdom*; ⁴*H. H. Wills Physics Laboratory, University of Bristol, Tyndall Avenue, Bristol BS8 1TL, United Kingdom*; ⁵*School of Applied Sciences, University of Huddersfield, Queensgate, Huddersfield, HD1 3DH, United Kingdom***JB: Multiferroics IV - noncollinear magnets**

July 13 (Fri), 09:00~10:30, Room 106~8 (1F)

Chairperson: Kee Hoon Kim (Seoul National University, Korea)

JB01 Magnetoelectric effects and related phenomena in non-collinear spiral-spin systems09:00 Tsuyoshi Kimura, *Osaka University, Japan*

- JB02** Electric field control of nonvolatile four-state magnetization at room temperature
 09:30 Sae Hwan Chun¹, Yisheng Chai¹, Byung-gu Jeon¹, Hyung Joon Kim¹, Yoon Seok Oh¹, Ingyu Kim¹, Hanbit Kim¹, Byeong Jo Jeon¹, So Young Haam¹, Ju-young Park¹, Suk Ho Lee¹, Jae-ho Chung², Jae-hoon Park³ and Kee Hoon Kim^{1*}, ¹Department of Physics and Astronomy, Seoul National University, Korea; ²Department of Physics, Korea University, Korea; ³Department of Physics and Division of Advanced Materials Science, POSTECH, Korea
- JB03** Low magnetic field reversal of electric polarization in Y-type hexaferrites
 09:45 Fen Wang, Tao Zou, Li-qin Yan, Yi Liu and Young Sun*, Institute of Physics, Chinese Academy of Sciences, China
- JB04** Nearest - next-nearest neighbor exchange frustrated quantum chain antiferromagnets:
 10:00 Recent results
 Reinhard Kremer*, MPI for Solid State Research, Stuttgart, Germany
- JB05** Multiferroic properties of layered triangular compounds
 10:15 Francoise Damay¹, Christine Martin², Maria Poincar², Gilles Andre¹, Sylvain Petit¹, Julien Robert¹, Vincent Hardy² and Antoine Maignan², ¹Laboratoire Leon Brillouin, CEA-CNRS UMR 12, 91191 GIF-SUR-YVETTE CEDEX, France; ²Laboratoire CRISMAT, CNRS UMR 6508, 6 bvd Marechal Juin, 14050 CAEN CEDEX, France

JC: Heavy fermions IV

July 13 (Fri), 09:00~10:30, Room 104~5 (1F)

Chairperson: S. Nakatsuji (University of Tokyo, Japan)

- JC01** STM and magnetotransport investigations on the heavy fermion metals YbRh₂Si₂ and CeMIn₅ (M = Co, Ir)
 09:00 Steffen Wirth^{1*}, Andrea Bianchi², Stefan Ernst¹, Christoph Geibel¹, Zachary Fisk³, Stefan Kirchner⁴, Cornelius Krellner¹, Joe D Thompson⁵ and Frank Steglich¹, ¹Max Planck Institute for Chemical Physics of Solids, Dresden, Germany; ²Departement de Physique, Universite de Montreal, Quebec H3C 3J7, Canada; ³University of California, Irvine, California 92697, USA; ⁴Max Planck Institute for Physics of Complex Systems, Germany; ⁵Los Alamos National Laboratory, Los Alamos, New Mexico 87545, USA
- JC02** Fermi surface of URu₂Si₂ in the hidden order state and in the antiferromagnetic state
 09:30 Elena Hassinger, Georg Knebel, Dai Aoki, Frederic Bourdarot, Liam Malone, Tatsuma Matsuda, Valentin Taufour and Jacques Flouquet, INAC/CEA Grenoble, France
- JC03** Switching of magnetic ordering near the quantum critical point of the heavy fermion superconductor CeRhIn₅
 10:00 Hyun Jung Lee^{1*} and Tetsuya Takimoto², ¹School of Physics, Korea Institute for Advanced Study, Seoul, Korea; ²Asia Pacific Center for Theoretical Physics, POSTECH, Pohang, Korea
- JC04** Resonant magnetic exciton mode in the heavy-fermion antiferromagnet CeB₆
 10:15 Gerd Friemel¹, Yuan Li¹, A. Dukhnenko², N. Yu. Shitsevalova², N. E. Sluchanko³, Alexandre Ivanov⁴, V. B. Filipov², Bernhard Keimer¹ and Dmytro Inosov^{1*}, ¹Max Planck Institute for Solid State Research, Stuttgart, Germany; ²I. M. Frantsevich Institute for Problems of Material Sciences of NAS, Kiev, Ukraine; ³A. M. Prokhorov General Physics Institute of the Russian Academy of Sciences, Moscow, Russia; ⁴Institut Laue-Langevin, Grenoble, France

JD: Magnetism theory / Simulation of quantum and classical systems

July 13 (Fri), 09:00~10:30, Room 109~10 (1F)

Chairperson: Unjong Yu (GIST, Korea)

- JD01** Magnetostriction to 97.4T in frustrated Shastry-Sutherland compound SrCu₂(BO₃)₂
 09:00 Marcelo Jaime^{1*}, Ramzi Daou², Scott A Crooker¹, Franziska Weickert³, Atsuko Uchida¹, Adrian Feiguin⁴, Cristian D Batista⁵, Hanna A Dabkowska⁶ and Bruce D Gaulin⁷, ¹NMHFL, Los Alamos National Laboratory, Los Alamos, New Mexico 87544, USA; ²Max Planck Institute for Chemical Physics of Solids, 01187 Dresden, Germany; ³MPA-CMMS, MPA-CMMS, Los Alamos National Laboratory, Los Alamos, New Mexico 87544, USA; ⁴Department of Physics & Astronomy, University of Wyoming, Laramie, Wyoming 82071, USA; ⁵Theory Division, Los Alamos National Laboratory, Los Alamos, New Mexico 87544, USA; ⁶Brockhouse Institute for Materials Research, McMaster University, Hamilton, ON, L8S 4M1, Canada; ⁷Department of Physics & Astronomy, McMaster University, Hamilton, ON, L8S 4M1, Canada
- JD02** Unconventional spin-glass behaviors in pyrochlore Heisenberg antiferromagnets coupled with lattice distortions
 09:15 Hiroshi Shinaoka¹, Yusuke Tomita² and Yukitoshi Motome³, ¹Nanosystem Research Institute, National Institute of Advanced Industrial Science and Technology, Japan; ²Institute for Solid State Physics, University of Tokyo, Japan; ³Department of Applied Physics, University of Tokyo, Japan
- JD03** Theory of spin liquids in integer spin pyrochlores
 09:30 Sungbin Lee^{1*}, Shigeki Onoda² and Leon Balents³, ¹University of California, Santa Barbara, USA; ²Condensed matter theory Laboratory, RIKEN, Japan; ³Kavli Institute for Theoretical Physics, University of California, Santa Barbara, USA
- JD04** Field-induced spin nematic and spin density wave orders in spatially anisotropic frustrated magnets
 09:45 Masahiro Sato¹, Toshiya Hikihara² and Tsutomu Momoi³, ¹Department of Physics and Mathematics, Aoyama Gakuin University, Japan; ²Faculty of Engineering, Gunma University, Japan; ³Condensed Matter Theory Laboratory, RIKEN, Japan
- JD05** Spin liquids for spin 1/2 systems with strong charge fluctuation on the triangular lattice
 10:00 Eun-gook Moon and Cenke Xu, Physics, UCSB, USA
- JD06** Emergent criticalities and phase transitions in monomer-dimer mixture system on a honeycomb lattice
 10:15 Hiromi Otsuka*, Department of Physics, Tokyo Metropolitan University, Japan

JE: Domain wall motion III

July 13 (Fri), 09:00~10:30, Room 201 (2F)

Chairperson: T. Ono (Kyoto University, Japan)

- JE01** Domain-wall physics and devices using focused electron and ion beams
 09:00 Henk Swagten*, Jeroen Franken, Christian Geurts, Mark Van Der Heijden, Mark Hoeijmakers, Tim Ellis, Elena Mure, Beatriz Barcones, Juergen Kohlhepp and Bert Koopmans, Applied Physics, Eindhoven University of Technology, Netherlands
- JE02** Real time analysis of spinmotive forces due to domain wall motion
 09:15 Jun'ichi Ieda*, Yuta Yamane and Sadamichi Maekawa, Advanced Science Research Center, Japan Atomic Energy Agency, Japan

- JE03** Spin-current induced magnetization dynamics
09:30 Mathias Klaui, *Institute of Physics, Johannes Gutenberg-Universitaet Mainz, Germany*
- JE04** External magnetic field dependence of the magnetic wall drive current density in a TbFeCo magnetic nanowire
10:00 Hiroyuki Awano, Ryo Eguchi, Toma Kanehira and Do Bang, *Toyota Technological Institute, Japan*

JF: Metal spintronics III

July 13 (Fri), 09:00~10:30, Room 202 (2F)

Chairperson: H. Yang (National University of Singapore, Singapore)

- JF01** Disentangling and manipulating intrinsic and extrinsic contributions in the anomalous hall effect
09:00 Xiaofeng Jin*, *Physics Department, Fudan University, China*
- JF02** Spinmotive forces in spin-orbit coupling systems
09:30 Yuta Yamane*, Jun'ichi Ieda and Sadamichi Maekawa, *Japan Atomic Energy Agency, Japan*
- JF03** Theory of the spin Hall effect in ferromagnetic metals: Nonlinear behaviors around the curie temperature
09:45 Bo Gu^{1*}, Timothy Ziman² and Sadamichi Maekawa¹, ¹*Advanced Science Research Center, Japan Atomic Energy Agency, Japan;* ²*CNRS and Institut Laue Langevin, France*
- JF04** Minority band gap and magnetic properties of Co₂(Fe,Mn)Z (Z=Al, Ga ; Si, Ge) in the context of CPP-GMR transport
Withdrawn Faleev Sergey and Oleg N. Myrasov, *Physics and Astronomy and MINT Center, Physics and Astronomy and MINT Center, USA*
- JF05** Anisotropy in the intrinsic anomalous Hall effect
10:00 Lin Wu, Yufan Li, Jianli Xu and Xiaofeng Jin*, *Surface Physics Laboratory and Physics Department, Fudan University, China*

JG: Spin waves II

July 13 (Fri), 09:00~10:30, Room 203 (2F)

Chairperson: Russell Cowburn (University of Cambridge, UK)

- JG01** Propagation and scattering of spin waves in curved magnonic waveguides
09:00 Vira Tkachenko¹, Andriy Kuchko¹, Mykola Dvornik² and Volodymyr Kruglyak^{2*}, ¹*Donetsk National University, Ukraine;* ²*University of Exeter, United Kingdom*
- JG02** Theory of static and dynamic properties of magnetic dot arrays coupled by dipole-dipole interaction
09:15 Roman Verba¹, Gennady Melkov¹, Vasil Tiberkevich² and Andrei Slavin^{2*}, ¹*Radiophysics, Kiev National University, Ukraine;* ²*Physics, Oakland University, USA*
- JG03** Theoretical study on ferromagnetic resonance of FePt/Py bilayers
09:30 Hiroshi Imamura¹, Takeshi Seki², Kazuhisa Utsumiya², Yukio Nozaki³ and Koki Takanashi², ¹*NRI-AIST, Japan;* ²*IMR, Tohoku Univ., Japan;* ³*Keio Univ., Japan*
- JG04** NMR observations of level crossings in a Cr₈F₈ pivalate single crystal: The solution to the structured enhancement of 1/T1
09:45 Shoji Yamamoto*, *Department of Physics, Hokkaido University, Japan*

- JG05** Spin state of ferric chloride investigated by Fe NMR
10:00 Byeongki Kang, Changsoo Kim, Euna Jo, Sangil Kwon and Soonchil Lee*, *Physics, KAIST, Korea*
- JG06** Spin dynamics of ferrite nanoparticles studied by 57Fe Mossbauer spectroscopy
10:15 Mathias Kraken^{1*}, Jochen Litterst¹, Ilka Marina Grabs², Ingke Christine Masthoff² and Georg Garnweinert², ¹*IPKM, TU Braunschweig, Germany;* ²*IPAT, TU Braunschweig, Germany*

JH: Nanostructured and composite hard magnetic materials

July 13 (Fri), 09:00~10:30, Room 204 (2F)

Chairperson: Masaki Nakano (Nagasaki University, Japan)

- JH01** Multi-layered nanocomposite thick film-magnet for power MEMS applications
09:00 Hirotoshi Fukunaga^{1*}, Masaki Nakano¹, Takeshi Yanai¹ and Fumitoshi Yamashita², ¹*Graduate School of Engineering, Nagasaki University, Japan;* ²*Rotary Component Technology Development Division, Minebea Co., Ltd., Japan*
- JH02** Development of high performance micron-scaled hard magnetic structures for micro-system applications
09:30 Nora Dempsey, F. Dumas-bouchiat, Y. Zhang, G. Ciuta, L. F. Zanini and D. Givord, *Institut Neel CNRS/UJF, France*
- JH03** Exchange spring magnet for rare earth free permanent magnet
10:00 Dongyoo Kim and Jisang Hong*, *Department of Physics, Pukyong National University, Korea*
- JH04** Prediction of maximum energy product for exchange coupled core-shell nanomagnets
10:15 Jihoon Park¹, Yang-ki Hong^{1*}, Jaejin Lee¹, Jeevan Jali², Gavin Sky Abo¹, Woncheol Lee¹, Chul-jin Choi³ and Junggoo Lee³, ¹*Department of Electrical and Computer Engineering and MINT Center, The University of Alabama, Tuscaloosa, Alabama 35487, USA;* ²*Schweitzer Engineering Laboratories, 2350 NE Hopkins Court, Pullman, Washington 99163, USA;* ³*Korea Institute of Materials Science, Changwon, Kyungsangnam-do, Korea*

JI: Strong magnetic anisotropy materials

July 13 (Fri), 09:00~10:30, Room 205 (2F)

Chairperson: George C. Hadjipanayis (University of Delaware, USA)

- JI01** Ferromagnetic properties of Co-Pd-SrTiO₃ alloy films with high magnetic anisotropy
09:00 Yiwen Zhang^{1*}, Syousuke Fukushi¹, Hanae Kijima¹, Nobukiyo Kobayashi², Atsushi Yokoi², Shigehiro Ohnuma² and Hiroshi Masumoto¹, ¹*Center for Interdisciplinary Research, Tohoku University, Japan;* ²*Research Institute for Electromagnetic Materials, Japan*
- JI02** Effect of change in thickness on the structural and magnetic properties of L10-ordered FePd films with (001) texture
09:15 Jungho Ko, Taejin Bae and Jongill Hong*, *Materials science and engineering, Yonsei Univ., Korea*
- JI03** Mechanism of large magnetic anisotropy of thin film m-DO19 Fe₃Pt and analogous 3d-5d compounds
Withdrawn Oleg Myrasov and Takao Suzuki, *Materials for Information Technology (MINT) Center, University of Alabama, USA*
- JI04** Fabrication of highly ordered L10 type FePt thin films by rapid thermal annealing
09:30 Masaki Mizuguchi*, Takashi Sakurada and Koki Takanashi, *Institute for Materials Research, Tohoku University, Japan*

- J105** Competing intrinsic and side-jump anomalous Hall effects in Isoelectric L10 FePtPd ternary alloy films
09:45 Pan He¹, Li Ma¹, Zhong Shi¹, Guan Yu Guo² and Shiming Zhou^{1*}, ¹Department of Physics, Tongji University, China; ²Department of Physics and Center for Theoretical Sciences, National Taiwan University, Taiwan
- J106** Effect of deposition temperature on the crystallographic structure and first-order magnetic phase transition of FeRh thin films on glass substrate
10:00 Wei Lu¹, Chenchong He², Zhe Chen² and Biao Yan², ¹School of Materials Science and Engineering, Tongji University, Shanghai, China; ²Tongji University, China

JJ: Magnetocaloric effects / Magnetoelastic materials

July 13 (Fri), 09:00~10:30, Room 206 (2F)

Chairperson: Claudia Felser (Max Planck Institute for Chemical Physics of Solids, Germany)

- JJ01** Some new physics and magnetism of rare earth-rich R₅T₄ and R₅T₃ compounds
09:00 Vitalij Pecharsky^{1*}, Yaroslav Mudryk², Durga Paudyal² and Karl Gschneidner, Jr.¹, ¹Ames Laboratory and Department of Materials Science and Engineering, Iowa State University, USA; ²Ames Laboratory, Iowa State University, USA
- JJ02** Morphotropic phase boundary in ferromagnets - A way leading to large magnetostriction
09:30 Sen Yang^{1*}, Xiaobing Ren² and Xiaoping Song¹, ¹Department of Materials Physics, Xi'an Jiaotong University, China; ²National Institute for Materials Science, Japan
- JJ03** Magnetostriction in geometrically frustrated Co₃V₂O₈ single crystals
09:45 Ryszard Zuberek¹, Ritta Szymczak¹, Jan Fink-Finowicki¹, Victor Nizhankovskii² and Henryk Szymczak¹, ¹Institute of Physics Polish Academy of Sciences, Warsaw, Poland; ²International Laboratory of High Magnetic Fields and Low Temperatures, Wroclaw, Poland
- JJ04** Magneto-volume anomalies and low-temperature inverse magneto-caloric effect in Er₂Fe₁₇
10:00 Pablo Alvarez¹, Pedro Gorria^{1*}, Jose Luis Sanchez Llamazares², Jorge Sanchez Marcos³, Gabriel Cuello⁴, Ines Puente-Orench⁵, Gaston Garbarino⁶, Imanol De Pedro⁷, Jesus Rodriguez Fernandez⁷ and Jesus A. Blanco¹, ¹Department of Physics, University of Oviedo, c/ Calvo Sotelo, s/n, 33007 Oviedo, Spain; ²Division de Materiales Avanzados, IPCyT, Camino a la presa San Jose 2055, 78216, San Luis Potosi, Mexico; ³Instituto de Ciencia de Materiales de Madrid, CSIC, Cantoblanco, 28049 Madrid, Spain; ⁴Institute Laue Langevin, 6 rue Jules Horowitz, 38042 Grenoble, France; ⁵Instituto de Ciencia de Materiales de Aragon, CSIC-Univ. Zaragoza, 50009 Zaragoza, Spain; ⁶European Synchrotron Radiation Facility, BP 220, 6 rue Jules Horowitz, 38043 Grenoble, France; ⁷Department CITIMAC, University of Cantabria, 39005 Santander, Spain
- JJ05** Neutron diffraction study of rare-earth compound Ho₅Pd₂ with large magnetocaloric effect
10:15 Hideaki Kitazawa¹, Yukihiko Kawamura², Noriki Terada¹, Hiroaki Mamiya¹, Hiroyuki S Suzuki¹, Andreas Doenni¹, Koji Kaneko³, Naoto Metoki³ and Naoki Igawa³, ¹Quantum Beam Unit, National Institute for Materials Science, Japan; ²CROSS-Tokai, Japan; ³Japan Atomic Energy Agency, Japan

KA: Kondo systems II

July 13 (Fri), 11:00~12:30, Room101~3 (1F)

Chairperson: Peter Riseborough (Temple University, USA)

- KA01** Probing the Kondo effect on the atomic scale by mapping the itinerant electrons
11:00 Martin Wenderoth, University of Gottingen, 4. Physikalisches Institut, Germany

- KA02** Coexistence of antiferromagnetic order and hybridization gap in Ce-based kondo semiconductors
11:30 D T Adroja^{1*}, T. Takabatake², Y. Muro³, K. Yutani², J. Kajino², K. Umeo⁴, S. Kimura⁵, A. D. Hillier¹, D. D. Khalyavin¹ and A. Severing⁶, ¹ISIS Facility, Rutherford Appleton Laboratory, Chilton, OX11 0QX, United Kingdom; ²Dept. Quantum Matter, AdSM, Hiroshima University, Higashi-Hiroshima, Japan; ³Liberal Arts and Sciences, Toyama Prefectural University, Imizu, Japan; ⁴4N-BARD, Hiroshima University, Higashi-Hiroshima, Japan; ⁵UVSOR Facility, Institute for Molecular Science, Okazaki, Japan; ⁶Institute of Physics II, University of Cologne, Cologne, Germany
- KA03** Kondo scattering investigated by Nernst-effect measurements
12:00 Peijie Sun¹, Christoph Geibel² and Frank Steglich², ¹Institute of Physics, Chinese Academy of Science, Beijing 100190, China; ²Max Planck Institute for Chemical Physics of Solids, Dresden, Germany
- KA04** Electron spin resonance in antiferro-quadrupolar ordered CeB₆
12:15 Pedro Schlottmann*, Department of Physics, Florida State University, USA

KB: Magnetic nanoparticles II

July 13 (Fri), 11:00~12:30, Room 106~8 (1F)

Chairperson: Tae Hee Kim (Ewha Womans University, Korea)

- KB01** Aligning and measuring the magnetic easy axis direction of superparamagnetic nanoparticles at temperatures much greater than the blocking temperature
11:00 Jean-charles Eloi, Mitsuhiro Okuda, Sarah Ward Jones and Walther Schwarzacher*, H. H. Wills Physics Laboratory, University of Bristol, United Kingdom
- KB02** Exchange-bias in iron-based nanoparticles
11:15 Emeric Folcke¹, Jean-marie Le Breton^{1*}, Williams Lefebvre¹, Rodrigue Larde¹ and Jeffrey E Shield², ¹Groupe de Physique des Matériaux - UMR 6634, CNRS - Université de Rouen, France; ²Nebraska Center for Materials and Nanoscience, University of Nebraska Lincoln, USA
- KB03** Photocontrolled magnetism through interface strain in core-shell prussian blue analogues
11:30 Elisabeth S. Knowles¹, Carissa H. Li², Matthieu F. Dumont¹, Marcus K. Peprah¹, Daniel R. Talham² and Mark W. Meisel^{1*}, ¹Department of Physics and NHMFL, University of Florida, USA; ²Department of Chemistry, University of Florida, USA
- KB04** Confinement effect on the A1 to L10 phase transformation of FePt
11:45 Andrew Gallagher*, Levent Colak, Ozan Akdogan and George Hadjipanayis, Physics and Astronomy, University of Delaware, USA
- KB05** Are small CoPt and FePt nanoparticles mono-L10 domain?
12:00 Florent Tournus^{1*}, Kazuhisa Sato², Toyohiko J. Konno², Thierry Epicier³ and Veronique Dupuis¹, ¹LPMCN, CNRS & Univ. Lyon 1, France; ²Institute for Materials Research, Tohoku University, Japan; ³MATEIS, CNRS & INSA-Lyon, France
- KB06** Magneto-structural correlations in antiferromagnetic and ferrimagnetic nanoparticles
12:15 Nuno Silva^{1*}, Vitor S. Amaral¹, Luis D. Carlos¹, Ainhoa Urtizberea², Rodney Bustamante², Angel Millan², Fernando Palacio², Erik Kampert³, Uli Zeitler³, Sophie De Brion⁴, Yuki Komorida⁵, Masaki Mito⁵, Oscar Iglesias⁶, Amilcar Labarta⁶, Ines Puente Orench⁷ and Javier Campo⁷, ¹Dep. Física and CICECO, Universidade de Aveiro, Portugal; ²Departamento de Física de la Materia Condensada and ICMA Universidad de Zaragoza, Spain; ³Radboud University Nijmegen, High Field Magnet Laboratory, Netherlands; ⁴CNRS, Inst. Neel, F-38042 Grenoble 9, France and Univ. Grenoble, Grenoble, France; ⁵Faculty of Engineering, Kyushu Institute of Technology, Kitakyushu, Japan; ⁶Departament de Física Fonamental and Institut de Nanociència i Nanotecnologia, Univ. Barcelona, Spain; ⁷ICMA-CSIC/Univ. Zaragoza, Zaragoza Spain and Institut Laue-Langevin, Grenoble, France, Spain

KC: Magnetic thin films and nanostructures II

July 13 (Fri), 11:00~12:30, Room 104~5 (1F)

Chairperson: H. Fujimori (Tohoku University, Japan)

KC01 360 degree domain walls in various magnetic ring thin films11:00 Chunghee Nam¹ and Caroline A. Ross², ¹*Physics, Hannam University, Korea;* ²*Materials Science and Engineering, MIT, USA***KC02 Magneto-optical effect of rare earth doped zinc ferrite thin films prepared using PLD**11:15 Naoki Wakiya^{1*}, Tekeshi Misu¹, Nobuyasu Adachi², Naonori Sakamoto¹, Kazuo Shinozaki³ and Hisao Suzuki¹, ¹*Shizuoka University, Japan;* ²*Nagoya Institute of Technology, Japan;* ³*Tokyo Institute of Technology, Japan***KC03 Electric field control of coercivity of Pt / Co / Al-O trilayer structures**11:30 Tatsuro Ohashi¹, Junichi Shiogai¹, Tim Yang¹, Makoto Kohda^{1*}, Takeshi Seki², Kesami Saito², Koki Takanashi² and Junsaku Nitta², ¹*Department of Materials Science, Tohoku university, Japan;* ²*Department of Materials Science, IMR, Tohoku university, Japan***KC04 Microstructure and magnetic property of epitaxial Fe/MgO layer on GaAs and InAs (001) substrates**11:45 Kyung Ho Kim¹, Hyung-jun Kim^{1*}, Jun Woo Choi¹, Joonyeon Chang¹ and Young Keun Kim², ¹*Spin Convergence Research Center, Korea Institute of Science and Technology, Korea;* ²*Department of Materials Science and Engineering, Korea University, Korea***KC05 Magnetic and transport properties of epitaxial discontinuous Fe/MgO multilayers**12:00 A. Garcia - Garcia¹, J. A. Pardo², P. Strichovanec³, A. Vovk⁴, J. M. De Teresa¹, G. N. Kakazei⁵, Yu. G. Pogorelov⁵, P. A. Algarabel^{1*} and M. R. Ibarra², ¹*ICMA, Universidad de Zaragoza-CSIC, 50009 Zaragoza, Spain;* ²*INA, Universidad de Zaragoza, 50018 Zaragoza, Spain;* ³*INA, Universidad de Zaragoza, 50018, Spain;* ⁴*CFMC, Universidade de Lisboa, 1749-016 Lisboa, Portugal;* ⁵*IFIMUP Universidade do Porto, 4169-007 Porto, Portugal***KC06 Magnetic and transport properties of submicron Gd strip**12:15 Seiji Nonoguchi¹, Tatsuya Nomura¹, Takahiro Matsunaga², Kohsuke Furukawa², Masahiro Hara² and Takashi Kimura^{1*}, ¹*Kyushu University, Japan;* ²*Kumamoto University, Japan***KD: Characterization of magnetic properties**

July 13 (Fri), 11:00~12:30, Room 109~10 (1F)

Chairperson: Chan Yong Hwang (KRISS, Korea)

KD01 Spin coupling, orbital angular momentum quenching, and electron localization in size-selected11:00 free transition metal clusters
Konstantin Hirsch¹, Markus Niemeyer¹, Vicente Zamudio-Bayer¹, Andreas Langenberg¹, Arkadiusz Lawicki¹, Bruno Langbehn¹, Henning Schroeder¹, Martin Kossick², Akira Terasaki³, Thomas Moeller², Bernd Von Issendorff⁴ and Tobias Lau^{1*}, ¹*Institut fuer Methoden und Instrumentierung der Forschung mit Synchrotronstrahlung, Helmholtz-Zentrum Berlin fuer Materialien und Energie GmbH, Germany;* ²*Institut fuer Optik und Atomare Physik, Technische Universitaet Berlin, Germany;* ³*Cluster Research Laboratory and Department of Chemistry, Toyota Technological Institute and Kyushu University, Japan;* ⁴*Fakultaet fuer Physik, Universitaet Freiburg, Germany***KD02 Nm-sized magnetic domains observed by small angle neutron scattering in exchange coupled superlattices***Withdrawn Karine Dumesnil^{1*}, Catherine Dufour¹, Mike Fitzsimmons², Julie Borchers³, Kathryn Krycka³, Mark Laver⁴ and Jonghan Won², ¹*Institut Jean Lamour - Lorraine University, France;* ²*LANSCE, USA;* ³*NIST, USA;* ⁴*PSI, Switzerland***KD03 Optical and magneto-optical characterization of $Y_{0.5}Bi_{2.5}Fe_5O_{12}$ and $Bi_3Fe_5O_{12}$ thin films prepared by metal-organic decomposition**11:30 Shengjun Tang¹, Tomohiko Yoshida¹, Martin Veis², Martin Zahradnik², Roman Antos², Takumi Moriyama³ and Takayuki Ishibashi^{1*}, ¹*Department of Materials Science of Technology, Nagaoka University of Technology, Japan;* ²*Faculty of Mathematics and Physics, Charles University at Prague, Czech Republic;* ³*HORIBA, Ltd., Japan***KD04 Fabrication of the epitaxial growth of (100) and (110) oriented Heusler alloy films for magnetic damping measurement.**11:45 Augustin Lutondo Kwilu, Mikiko Oogane, Hiroshi Naganuma and Yasuo Ando, *Department of Applied Physics, Tohoku University, Japan***KE: Domain walls and spin ice system**

July 13 (Fri), 11:00~12:30, Room 201 (2F)

Chairperson: Volodymyr Kruglyak (University of Exeter, UK)

KE01 Thermalised and frozen magnetization dynamics in artificial spin ice11:00 Jason Morgan¹, Zoe Budrikis², Johanna Akerman³, Aaron Stein⁴, Paolo Politi⁵, Sean Langridge⁶, Robert Stamps⁷ and Christopher Marrows^{1*}, ¹*School of Physics and Astronomy, University of Leeds, United Kingdom;* ²*School of Physics, University of Western Australia, Australia;* ³*ISOM, Universidad Politecnica Madrid, Spain;* ⁴*Center for Functional Nanomaterials, Brookhaven National Laboratory, USA;* ⁵*Istituto dei Sistemi Complessi, CNR, Italy;* ⁶*ISIS, STFC Rutherford Appleton Laboratory, United Kingdom;* ⁷*SUPA School of Physics and Astronomy, University of Glasgow, United Kingdom***KE02 Towards fully 3-dimensional MRAM**11:30 Russell Cowburn, *Cavendish Laboratory, University of Cambridge, United Kingdom***KE03 Spin-transfer-torques-induced domain-wall motion in ferromagnetic Pt/Co/Pt nanowires with perpendicular magnetic anisotropy**12:00 Kab-jin Kim¹, Jae-chul Lee¹, Jisu Ryu², Kyoung-woong Moon¹, Sang-jun Yun¹, Kyung-ho Shin³, Hyun-woo Lee² and Sug-bong Choe^{1*}, ¹*Department of Physics, Seoul National University, Korea;* ²*Department of Physics, POSTECH, Korea;* ³*KIST, Korea***KF: Novel spintronic devices and materials**

July 13 (Fri), 11:00~12:30, Room 202 (2F)

Chairperson: T. Kimura (Kyushu University, Japan)

KF01 Non-linear dynamics and high RF detection sensitivity in MgO-based spin-torque diode11:00 Yoshishige Suzuki¹, Shinji Miwa¹, Shota Ishibashi¹, Hiroyuki Tomita¹, Takayuki Nozaki², Eiichi Tamura¹, Ken Ando¹, Takeshi Saruya², Hitoshi Kubota², Kay Yakushiji², Akio Fukushima² and Shinji Yuasa², ¹*Graduate School of Engineering Science, Osaka University, Japan;* ²*Spintronics Research Center, National Institute of Advanced Industrial Science and Technology (AIST), Japan***KF02 Finite tunnel magnetoresistance in junctions with a zero magnetization ferromagnetic electrode***Withdrawn Karine Dumesnil^{1*}, Mathias Bersweiler, Mathieu Da Silva, Catherine Dufour, Michel Hehn, Daniel Lacour and Francois Montaigne, *Institut Jean Lamour - Lorraine University, France***KF03 Effects of mechanical rotation and vibration on spin currents**11:30 Mamoru Matsuo^{1*}, Jun'ichi Ieda, Eiji Saitoh and Sadamichi Maekawa, *Advanced Science Research Center, Japan Atomic Energy Agency, Japan*

- KF04** Design of self-organized nanostructures to achieve high blocking temperatures in MgO-based d⁰ ferromagnets
11:45 Masayoshi Seike^{1*}, Tetsuya Fukushima², Kazunori Sato² and Hiroshi Katayama-yoshida², ¹Grad. School of Eng. Sci., Osaka Univ. and Cent. Research Labs., Sysmex Corp., Japan; ²Grad. School of Eng. Sci., Osaka Univ., Japan
- KF05** Negative spin-polarization of Fe₄N observed by spin-resolved photoemission spectroscopy
12:00 Keita Ito¹, Kazunori Harada¹, Tatsunori Sanai¹, Kaoru Toko¹, Kazuaki Okamoto², Shigenori Ueda³, Yoji Imai⁴, Koji Miyamoto⁵, Taichi Okuda⁵, Akio Kimura² and Takashi Suemasu¹, ¹Institute of Applied Physics, University of Tsukuba, Japan; ²Graduate School of Science, Hiroshima University, Japan; ³Synchrotron X-ray Station at SPring-8, NIMS, Japan; ⁴AIST, Japan; ⁵HSRC, Hiroshima University, Japan

KG: SCES theory III

July 13 (Fri), 11:00~12:30, Room 203 (2F)

Chairperson: T. Devereaux (Stanford University, USA)

- KG01** Hidden order pseudogap and hybridization modulation in URu₂Si₂
11:00 Alexander Balatsky¹, Jason Haraldsen¹, Yoni Dubi², Jian Xin Zhu³, Peter Wolfle⁴ and Matthias Graf³, ¹Center for Integrated Nanotechnologies, LANL, USA; ²Center for Integrated Nanotechnologies, LANL, Israel; ³Theory division, LANL, USA; ⁴Institute for Theory of Condensed Matter and Center for Functional Nanostructures, Karlsruhe Germany, Germany
- KG02** Strain-effect on topological quantum phase transition in Ir-oxides
11:30 Jaejun Yu, Department of Physics and Astronomy and CSCMR, Seoul National University, Korea
- KG03** Hollandites - theoretical aspects of their unique electronic properties
12:00 Tatsuya Toriyama¹, Masayuki Watanabe¹, Takehisa Konishi² and Yukinori Ohta^{1*}, ¹Department of Physics, Chiba University, Japan; ²Graduate School of Advanced Integration Science, Chiba University, Japan
- KG04** Inter-band pairing and inhomogeneous superconductivity in multi-orbital systems
12:15 Mucio A. Continentino¹ and Heron Caldas², ¹Theory, Centro Brasileiro de Pesquisas Fisicas, Brazil; ²Physics, Universidade Federal de S. J. del Rei, Brazil

KH: Coercivity mechanism

July 13 (Fri), 11:00~12:30, Room 204 (2F)

Chairperson: Nora Dempsey (Institut Neel CNRS/UJF, France)

- KH01** High performance permanent magnets for energy applications
11:00 Oliver Gutfleisch¹, Tom G Woodcock², Simon Sawatzki², Konrad Lowe² and Konrad Guth², ¹Material Science, TU Darmstadt, Germany; ²IFW Dresden, Germany
- KH02** Influence of surface anisotropy on orientation of crystal grain in rare-earth permanent magnet
11:30 Chiharu Mitsumata*, Hiroki Tsuchiura and Akimasa Sakuma, Tohoku University, Japan
- KH03** International comparison of the properties of permanent magnets measured using an electromagnet and a pulse field magnetometer
11:45 Michael Hall, National Physical Laboratory, United Kingdom

- KH04** Ab initio calculations of magnetic moment and magneto-crystalline anisotropy: New ternary alloy Mn-Bi-Co permanent magnet
12:00 Yang-ki Hong^{1*}, Jihoon Park¹, Oleg N Mryasov², Jaejin Lee¹, Seong-gon Kim³, Sungho Kim³, Chul-jin Choi⁴ and Jung-goo Lee⁴, ¹Department of Electrical and Computer Engineering and MINT Center, The University of Alabama, USA; ²Physics and Astronomy and MINT Center, The University of Alabama, USA; ³Department of Physics & Astronomy and Center for Computational Sciences, Mississippi State University, USA; ⁴Korea Institute of Materials Science, Korea

KI: Theoretical calculation

July 13 (Fri), 11:00~12:30, Room 205 (2F)

Chairperson: Roberto Zivieri (University of Ferrara, Italy)

- KI01** First-principles prediction of large perpendicular magnetocrystalline anisotropy of 4d-monolayers on bcc-Fe(001) surface
11:00 Dorj Odkhuu, Tumurbaatar Tsevelmaa, Won Seok Yun, Oryong Kwon, Bharat Kumar Sharma and Soon Cheol Hong*, Department of Physics, University of Ulsan, Korea
- KI02** Ferromagnetic phase at the LaAlO₃/SrTiO₃ (001) interface induced by SrTiO₃ lattice deformation
11:30 Jichao C Li and Carmen Munoz*, ICMM- Consejo Superior de Investigaciones Cientificas, Spain
- KI03** Interfacial magnetic anisotropy of junctions between Fe and transition-metal nitrides or carbides: a first-principles study
11:45 Masahito Tsujikawa¹, Miura Yoshio² and Masafumi Shirai³, ¹CSIS, Tohoku University, Japan; ²RIEC and CSIS, Tohoku University, Japan; ³RIEC and CSIS, Tohoku University, Japan
- KI04** Enhancement of exchange coupling by incoherent quantum resonance
12:00 Ching Hao Chang, National Tsing Hua University, Taiwan
- KI05** Scrolling effects in vanadium oxide nanotubes and nanolayers
12:15 Sergey Demishev^{1*}, Alexey Chernobrovkin¹, Vladimir Glushkov¹, Nickolay Sluchanko¹, Nickolay Samarin¹, Alexey Semeno¹, Anastasiya Grigorieva², Evgenii Goodilin², Hitoshi Ohta³, S. Okubo³, M. Fujisawa³ and T. Sakurai³, ¹Low Temperatures and Cryogenic Engineering, General Physics Institute of RAS, Russia; ²Faculty of Materials Sciences, Moscow State University, Moscow, 119991 Russia; ³Molecular Photoscience Research Center, Kobe University, 1-1 Rokkodai, Nada, Kobe 657-8501, Japan

KI: New developments

July 13 (Fri), 11:00~12:30, Room 206 (2F)

Chairperson: Eunseong Kim (KAIST, Korea)

- KJ01** THz emission from High-T_c superconductor Bi₂Sr₂CaCu₂O_{8+δ} intrinsic josephson junctions
11:00 K. Kadouki^{1,2}, T. Kashiwagi^{1,2}, M. Tsujimoto^{1,2}, K. Delfanazari^{1,2}, T. Kitamura^{1,2}, M. Sawamura^{1,2}, K. Ishida^{1,2}, S. Sekimoto^{1,2}, C. Watanabe^{1,2}, R. A. Klemm³ and M. Tachiki¹, Graduate School of Pure and Applied Science, University of Tsukuba, Japan; ²CREST & WPI-MANA, Japan; ³Department of Physics, University of Central Florida, USA
- KJ02** Electric field control of magnetization in spiral magnets
11:30 Kee Hoon Kim, CeNSCMR, Department of Physics and Astronomy, Seoul National University, Korea

INVITED & CONTRIBUTED PRESENTATION

July 13 (Fri)

KJ03 Novel Josephson effect in triplet Josephson junctions: The story begins

12:00 Dirk Manske, *Max Planck Institute for Solid State Research, Germany*

KJ04 Field-induced polarization of dirac valleys in bismuth

12:15 Zengwei Zhu¹, Aurelie Callaudin¹, Benoit Fauque¹, Woun Kang², Kamran Behnia^{1*} and Yuki Fuseya³,

¹CNRS, France; ²Ewha Womans University, Korea; ³Osaka University, Japan



POSTER PRESENTATION

POSTER PRESENTATION

Poster Presentation Topics

PA:	Multiferroics I
PB:	Superconductivity I
PC:	Superconductivity V
PD:	Heavy fermions I
PE:	Kondo Impurity and kondo lattice systems
PF:	Theory of strongly correlated matter I
PG:	Magnetic materials and characterization methods
July 9 (Mon)	PH: 3d transition metal oxides I
	PI: 3d transition metal oxides II
	PJ: Spin-dependent transport I
	PK: Perpendicular magnetic anisotropy and strong anisotropy
	PL: Surface and interface effects including exchange bias
	PM: Soft magnetic materials I
	PN: Diluted magnetic semiconductor/nano-composite I
	PO: Interdisciplinary topics
	QA: Multiferroics II
	QB: Superconductivity II
	QC: Heavy fermions II
	QD: Valence fluctuations
	QE: Frustrated systems, kagome, triangular systems
	QF: 1D, low-dimensional systems
	QG: Intermetallic compounds I
July 10 (Tue)	QH: Intermetallic compounds II
	QI: Lanthanides I
	QJ: Lanthanides II
	QK: Spin-dependent transport II
	QL: Diluted magnetic semiconductors and others
	QM: Magnetic characterization
	QN: Soft magnetic materials II
	QO: Novel magnetic materials and devices II
	QP: Magnetic recording and memories

RA:	Multiferroics III
RB:	Superconductivity III
RC:	Topological insulators I
RD:	Heavy fermions III
RE:	Non-fermi liquids and quantum phase transitions I
RF:	Theory of strongly correlated matter II
RG:	Theory of strongly correlated matter III
RH:	Theory, spin, magnetic materials
RI:	Phase transition
RJ:	Vortex dynamics
RK:	Ultrafast dynamics
RL:	Spin electronics I
RM:	Theoretical calculation
RN:	Magnetic nanoparticles
RO:	Hard magnetic materials I
RP:	Measuring techniques and instrumentation I
RQ:	Measuring techniques and Instrumentation II
RR:	Industrial applications
SA:	Multiferroics IV
SB:	Superconductivity IV
SC:	Superconductivity VI
SD:	Topological insulators II
SE:	Heavy fermions IV
SF:	Non-fermi liquids and quantum phase transitions II
SG:	New developments
SH:	Domain and domain walls
SI:	Spin waves
SJ:	Modeling
SK:	Spin electronics II
SL:	Magnetic nanostructures and arrays
SM:	Magnetic thin films and others
SN:	Hard magnetic materials II
SO:	Novel magnetic materials and devices I

POSTER PRESENTATION

July 9 (Mon)

PA: Multiferroics I

July 9 (Mon), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Jong Hoon Jung (Inha University, Korea)

- PA01 **Magnetoelectric polarization in the field-induced commensurate phase of Y-hexaferrite $\text{Ba}_{0.7}\text{Sr}_{1.3}\text{Zn}_2(\text{Fe}_{1-x}\text{Al}_x)_{12}\text{O}_{22}$**
Hak Bong Lee, Hun Chang, Young Sang Song, Jae-ho Chung, *Department of Physics, Korea Univ., Korea*
- PA02 **Temperature- and field-tuning of magnetic phases in multiferroic $\text{NdFe}_3(\text{BO}_3)_4$**
Christie S. Nelson^{1*}, Leonard N. Bezmaternykh² and Irina A. Gudim², ¹*Photon Sciences Directorate, Brookhaven National Laboratory, USA; ²L.V. Kirensky Institute of Physics, Siberian Branch of RAS, Russia*
- PA03 **Control of magnetic anisotropies for stable electric polarization in multiferroics hexaferrites**
Hun Chang, Hak-bong Lee, Young-sang Song and Jae-ho Chung*, *Department of phsicis, Korea Univ., Korea*
- PA04 **Chemical control of ferroelectric polarization in $\text{Mn}_{1-x}\text{Co}_x\text{WO}_4$**
Young-sang Song¹, Jae-ho Chung^{1*}, Sung-beak Kim², Jurg Scheffer³, Li Qin Yan⁴, Bumsung Lee⁴, Sae-hwan Chun⁴, Kee Hoon Kim⁴, A. Nogami⁵ and T. Katsufuji⁵, ¹*Department of Physics, Korea University, Seoul, 136-713, Korea; ²Advancement for College Education Center, Konyang University, Chungnam 320-711, Korea; ³Laboratory for Neutron Scattering, Paul Scherrer Institut, Villigen, Switzerland; ⁴Department of Physics, Seoul National University, Seoul, 151-742, Korea; ⁵Department of Physics, Waseda University, Tokyo 169-8555, Japan*
- PA05 **Multiferroic phase competition in orthorhombic RMnO_3 : Monte Carlo approaches**
Jun-ming Liu*, *Department of Physics, Nanjing University, China*
- PA06 **Spin-driven electric polarization in akermanite $\text{Sr}_2\text{MSi}_2\text{O}_7$ crystals**
Mitsuru Akaki^{1*}, Tomoya Tadokoro¹, Takumi Kihara², Masashi Tokunaga³ and Hideki Kuwahara¹, ¹*Department of Physics, Sophia University, Japan; ²The Institute for Solid State Physics, The University of Tokyo, Japan*
- PA07 **Magnetoelectric effects in antiferromagnet $\text{Ba}_2\text{CoGe}_2\text{O}_7$**
Shin Miyahara¹ and Nobuo Furukawa², ¹*JST ERATO-MF, Japan; ²JST ERATO-MF, Aoyama Gakuin University, Japan*
- PA08 **X-ray non-reciprocal effects in multiferroic single crystal of GaFeO_3**
Andrei Rogalev*, Fabrice Wilhelm and Alexei Bosak, *European Synchrotron Radiation Facility, France*
- PA09 **NMR study on $\text{Ba}_{0.5}\text{Sr}_{1.5}\text{Zn}_2(\text{Fe}_{0.92}\text{Al}_{0.08})_{12}\text{O}_{22}$**
Sangil Kwon¹, Soonchil Lee^{1*}, Dong Young Yoon¹, Sae Hwan Chun², Yi Sheng Chai², Kee Hoon Kim², Euna Jo¹, Changsoo Kim¹ and Byeongki Kang¹, ¹*Department of Physics, Korea Advanced Institute of Science and Technology, Daejeon 305-701, Korea; ²CeNSCMR, Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea*
- PA10 **Magnetic ordering in multiferroic $\text{TbFe}_x\text{Mn}_{2-x}\text{O}_5$ with $x=0.18$**
Nadir Aliouane¹, Andrey Malyuk² and Dimitri N. Argyriou³, ¹*Laboratory for Neutron scattering, Paul scherrer Institut CH-5232, Villigen-PSI, Switzerland; ²IFW Dresden, Institute for Solid State Research Helmholtzstr. 20 DE-01069 Dresden, Germany; ³Science Directorate, European Spallation Source ESS AB P.O Box 176, SE-221 00 Lund, Sweden*
- PA11 **Strain-induced ferroelectric instabilities in the epitaxial RMn_2O_5 ($\text{R}=\text{Dy}$ and Tb) thin films**
Jong Hyun Song¹, Jae Young Kim², Sun Hee Kang³, Ill Won Kim³, Yoon Hee Jeong⁴ and Tae Yeong Koo^{2*}, ¹*Physics Department, Chungnam National University, Korea; ²Pohang Accelerator Laboratory, Korea; ³Physics Department, Ulsan University, Korea; ⁴Physics Department, Pohang University of Science and Technology, Korea*

POSTER PRESENTATION**July 9 (Mon)**

- PA12** Magnetically driven ferroelectric atomic displacements in perovskite-type YMnO_3 determined by single-crystal structure analysis
 Daisuke Okuyama¹, Shintaro Ishiwata², Youtarou Takahashi², Kunihiko Yamauchi³, Silvia Picozzi⁴, Kunihisa Sugimoto⁵, Hideaki Sakai⁶, Masaki Takata⁷, Ryo Shimano⁸, Yasujiro Taguchi¹, Taka-hisa Arima⁹ and Yoshinori Tokura², ¹Cross-Correlated Materials Resarch Group (CMRG), and Correlated Electron Research Group (CERG), RIKEN ASI, Japan; ²Department of Applied Physics and Quantum-Phase Electronics Center (QPEC), University of Tokyo, Japan; ³The Institute of Scientific and Industrial Research (ISIR)-Sanken, Osaka University, Japan; ⁴Consiglio Nazionale dei le Ricerca-Superconducting and Innovative materials and device (CNR-SPIN), Italy; ⁵JASRI, SPring-8, Japan; ⁶School of Physics & Astronomy, University of St Andrews North Haugh, United Kingdom; ⁷RIKEN, SPring-8 Center, Japan; ⁸Department of Physics, University of Tokyo, Japan; ⁹Department of Advanced Materials Science, University of Tokyo, Japan
- PA13** Magnetic symmetry and electric polarization on $\text{Mn}_{1-x}\text{Co}_x\text{WO}_4$ multiferroics
 Irene Urcelay - Olabarria^{1*}, Eric Ressouche¹, Jose Luis Garcia - Munoz², Vassil Skumryev³, Alexander Mukhin⁴ and Juan Manuel Perez - Mato⁵, ¹Institut Laue Langevin, 38042 Grenoble, Cedex 9, France; ²Instituto de Ciencia de Materiales de Barcelona, ICMAB-CSIC, E-08193 Bellaterra, Spain; ³Institut Catala de Recerca i Estudis Avancats (ICREA), E-08193 Barcelona, Spain; ⁴Prokhorov General Physics Institute of the Russian Acad. Sci., 119991 Moscow, Russia; ⁵Dpto. De Fisica de la Materia Condensada, Fac. de Ciencia y Tecnologia, Universidad del País Vasco, Spain
- PA14** Crystal and magnetic structure of multiferroic $\text{Ba}_2\text{CoGe}_2\text{O}_7$
 Vladimir Hutanu^{1*}, Andrew Sazonov², Martin Meven¹, Dmitry Chernyshov³, H. Murakawa⁴, Y. Tokura⁴, Istvan Kezsmarki⁵, Balint Nafradi⁶ and Georg Roth¹, ¹Institut fur Krystallographie, RWTH Aachen University, Germany; ²Laboratoire Leon Brillouin, CEA, Centre de Saclay; DSM/IRAMIS, France; ³Swiss-Norwegian Beam Lines, ESRF, France; ⁴Multiferroics Project, ERATO, JST, University of Tokyo, Japan; ⁵Department of Physics, Budapest University of Technology, Hungary; ⁶Max Planck Institute for Solid State Research, Stuttgart, Germany
- PA15** The role of Co-doping in $\text{Mn}_{0.85}\text{Co}_{0.15}\text{WO}_4$ studied by magnetic X-ray scattering
 Javier Herrero-martin^{1*}, Alexey Dobrynin², Paul Steadman², Peter Bencok², Raymond Fan², Claudio Mazzoli³, A. M. Balbashov⁴ and A. A. Mukhin⁵, ¹Institute of Materials Science of Barcelona - CSIC, Spain; ²Diamond Light Source, Didcot, Oxfordshire, United Kingdom; ³Dpto. Fisica, Politecnico di Milano, Milano, Italy; ⁴Moscow Power Engineering Institute, Moscow, Russia; ⁵Prokhorov General Physics Institute of the Russian Acad. Sci., Moscow, Russia
- PA16** (Withdrawn) Magnetic and electronic properties of hexagonal RMnO_3 ($\text{R} = \text{Y}, \text{Tb}$) quantum-wells
 Ambrose Seo*, Physics and Astronomy, University of Kentucky, USA
- PA17** Magnetic properties of the pyroxenes
 Sergey Streltsov¹ and Daniel Khomskii², ¹Institute of metal Physics, Russia; ²University of Cologne, Germany
- PA18** (Withdrawn) High-field study of multiferroic $\text{Ni}_3\text{V}_2\text{O}_8$
 Junfeng Wang¹, Masashi Tokunaga², Zhangzhen He³ and Koichi Kindo², ¹Wuhan National High Magnetic Field Center, China; ²The Institute for Solid State Physics (ISSP), The University of Tokyo, Japan; ³Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, China
- PA19** Control of coexisting ferroelectric phases in RMnO_3 crystals with fine tuning of 4f moment
 Tomoya Tadokoro*, Mitsuru Akaki, Haruhiko Kuroe, Tomoyuki Sekine and Hideki Kuwahara, Department of Physics, Sophia University, Japan
- PA20** SmCr₃(BO₃)₄ - A new multiferroic?
 Kirill N. Boldyrev^{1*}, Marina N. Popova¹, Viktor V. Mal'tsev² and Nicolay I. Leonyuk², ¹Solid State Spectroscopy, Institute of spectroscopy RAS, Russia; ²Faculty of Geology, Moscow State University, Russia

POSTER PRESENTATION**July 9 (Mon)**

- PA21** Magnetodielectric effect in the antiferromagnet SrNdFeO_4
 Jungmin Hwang¹, Eun Sang Choi², Haidong Zhou², Yan Xin², Jun Lu² and Pedro Schlottmann¹, ¹Florida State University/NHML, USA; ²NHML (National High Magnetic Field Laboratory), USA
- PA22** Mössbauer studies of Y-type hexaferrite by Aluminum doping
 Jung Tae Lim, Chin Mo Kim, Sung Wook Hyun, Mi Hee Won, Taejoon Kouh and Chul Sung Kim*, Department of Physics, Kookmin University, Korea
- PA23** Optical spectroscopy of the triangular lattice antiferromagnets CuCrO_2 and alpha- CaCr_2O_4
 Michael Schmidt^{1*}, Zhe Wang¹, Franz Mayr¹, Sandor Toth², Bella Lake², A. T. M. Nazmul Islam², Vladimir Tsurkan¹, Alois Loidl¹ and Joachim Deisenhofer¹, ¹Experimental Physics V, EKM, Institute of Physics, University of Augsburg, Germany; ²Helmholtz Zentrum Berlin fur Materialien und Energie, Germany
- PA24** Nuclear forward scattering in high magnetic fields; spin structures in the magnetic staircase of frustrated multiferroic CuFeO_2
 Cornelius Strohm^{1*}, Tom T. A. Lummen², Puri I. Handayani³, Thomas Roth¹, Peter J. E. M. Van Der Linden¹ and Paul H. M. Van Loosdrecht³, ¹European Synchrotron Radiation Facility, 6 rue Jules Horowitz 38000 Grenoble, France; ²Department of Materials Science and Engineering, The Pennsylvania State University, 121 Steidle Building, University Park, PA, 16802, USA; ³Zernike Institute for Advanced Materials, University of Groningen, Nijenborgh 4, 9747 AG Groningen, Netherlands
- PA25** Magnetic dispersion of the quasi-1D, spin-1/2, multiferroic CuO
 Stephen Michael Gaw, Oxford University, United Kingdom
- PB:** **Superconductivity I**
July 9 (Mon), 13:30~15:30, Exhibition Hall 1 (1F)
 Chairperson: Jungseek Hwang (Sungkunkwan University, Korea)
- PB01** Hole-doped cuprate panorama and the second neighbor hopping
 Partha Goswami*, Physics department, D.B.College(University of Delhi), New Delhi, India
- PB02** Quantum oscillations from nodal bilayer magnetic breakdown in the underdoped high temperature superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{6+\delta}$
 Neil Harrison, Los Alamos National Laboratory, USA
- PB03** Influence of BaSnO_3 nanoparticle dispersions on flux pinning property of $\text{GdBa}_2\text{Cu}_3\text{O}_{7-\delta}$ multilayered thin films
 Duc H. Tran¹, Witha B. K. Putri¹, Byeongwon Kang^{1*}, N. H. Lee², W. N. Kang², J. Y. Lee³ and W. K. Seong³, ¹Physics, Chungbuk National University, Korea; ²Physics, Sungkyunkwan University, Korea; ³Convergence Technology Laboratory, Korea Institute of Science and Technology, Korea
- PB04** Highly anisotropic dielectric behavior of insulating $\text{Bi}_2\text{Sr}_2\text{RECu}_2\text{O}_{8+\delta}$ ($\text{RE} = \text{Dy}, \text{Y}$)
 Makoto Maki, Chikano Yukitake and Shigeyuki Yufu, Department of Physics, Saga University, Japan
- PB05** Pressure effect on the superconductivity and crystal structure for Hg cuprate
 Yukihiro Kamada¹, Tomoko Kagayama^{1*}, Katsuya Shimizu¹, Akira Iyo² and Shin-ichi Uchida³, ¹KYOKUGEN, Osaka Univ., Japan; ²AIST, Japan; ³Dept. of Phys., The Univ. of Tokyo, Japan
- PB06** Hole doping effect for the T'- Ln_2CuO_4 ($\text{Ln} = \text{La}, \text{Nd}$) cuprate
 Wataru Ito, Kenji Kawashima, Suguru Igarashi, Michinori Fukuma and Jun Akimitsu, Physics and Mathematics, Aoyama Gakuin University, Japan
- PB07** Thermodynamic properties of copper oxide $\text{Cu}_6\text{O}_8\text{YCl}_{1-x}\text{Br}_x$
 Kenji Kawashima, Hiroki Takeda and Jun Akimitsu, Physics and Mathematics, Aoyama Gakuin University, Japan

POSTER PRESENTATION**July 9 (Mon)**

- PB08 Nodal superconducting gap in Bi_{2201} investigated by low temperature specific heat measurements**
Naoki Momono^{1*}, Nobutaka Saikai¹, Tohru Kurosawa², Yusuke Amakai¹, Sigeyuki Murayama¹, Hideaki Takano¹, Miguaki Oda² and Masayuki Ido², ¹Applied Sciences, Muroran Institute of Technology, Japan; ²Department of Physics, Hokkaido University, Japan
- PB09 Chemically introduced disorder effects on the critical current density and pinning force of $\text{YBa}_2\text{O}_{7.6}$ single crystals**
Rovani Fernandes Lopes^{1*}, Valdemar Das Neves Vieira¹, Ana Paula Aguiar De Mendonca¹, Fabio Teixeira Dias¹, Douglas Langie Da Silva¹, Paulo Pureur², Jacob Schaf² and Frederik Wolff-fabris³, ¹Universidade Federal de Pelotas, Brazil; ²Universidade Federal do Rio Grande do Sul, Brazil; ³HZ Dresden-Rossendorf, Germany
- PB10 The correlation between the magnetic irreversibility and the zero resistance temperatures in granular $\text{YBa}_2\text{Cu}_3\text{O}_{7.6}$ single crystals**
Daniela Goetzke Macedo^{1*}, Valdemar Vieira¹, Fabio Dias¹, Douglas langie¹, Paulo Pureur², Jacob Schaf² and Frederik Fabris³, ¹Instituto de Fisica e Matematica, UPEL, Brazil; ²Instituto de Fisica, UFRGS, Brazil; ³Dresden High Magnetic Field Laboratory, HZ Dresden-Rossendorf, Brazil
- PB11 Paramagnetic Meissner effect and strong time dependence at high fields in melt-textured high-tc superconductors**
Cristol De Paiva Gouveia^{1*}, Fabio Teixeira Dias¹, Valdemar Das Neves Vieira¹, Douglas Langie Da Silva¹, Frederik Wolff-Fabris², Erik Kampert², Jacob Schaf³ and Joan Josep Roa Rovira⁴, ¹Universidade Federal de Pelotas, 96010-900, Pelotas, Brazil; ²Dresden High Magnetic Field Laboratory, HZ Dresden-Rossendorf, 01314, Dresden, Germany; ³Universidade Federal do Rio Grande do Sul, 91501-970, Porto Alegre, Brazil; ⁴Universite de Poitiers, 86962, Poitiers, France
- PB12 Enhancement of Ti-Se bonding length in CuxTiSe_2**
Sang Wook Han¹, Han-jin Noh², Daehyun Kim³, Jihoon Hwang³, Jeong Soo Kang³, W. F. Pong⁴ and Soon Cheol Hong^{1*}
¹Department of Physics and EHSRC, University of Ulsan, Korea; ²Department of Physics, Chonnam Nation University, Korea; ³Department of Physics, The Catholic University of Korea, Korea; ⁴Department of Physics, Tamkang University, Taiwan
- PB13 Para-conductivity of $(\text{Bi}_{0.25}\text{Cu}_{0.25}\text{Li}_{0.25}\text{Tl}_{0.25})\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10.6}$ superconductors**
Qurat-ul Ain and Nawazish Ali Khan, Physics, Quaid-i-azam University Islamabad Pakistan
- PB14 Charge transfer instability governs unconventional behavior of doped cuprates**
Alexander Moskvin and Alexey Korolev, Department of Theoretical Physics, Ural Federal University, Russia
- PB15 The effect of CdO nanoparticles doping and sintering time on the structure and critical temperature of Bi_{2223} superconductor**
Morteza Zargar Shoushtari*, S Ebrahim Musavi Ghahfarokhi and Nahid Hossinzadeh, Physics, Shahid Chamran University of Ahvaz, Iran
- PB16 Charging/Discharging and overcurrent characteristics of GdBCO coils using various partial insulation winding methods**
Yoon Hyuck Choi, Kwang Lok Kim, Oh Jun Kwon, Hyun-jin Shin and Haigun Lee*, Department of Materials Science and Engineering, Korea University, Korea
- PB17 Effect of filter shape on the capture efficiency of a high gradient magnetic separation (HGMS) system**
Young-gyun Kim, Jung-bin Song, Dong Gyu Yang, Jongseok Lee and Haigun Lee*, Department of Materials Science and Engineering, Korea University, Korea

POSTER PRESENTATION**July 9 (Mon)**

- PB18 Effects of various epoxy impregnations on the electrical properties of GdBCO-coated conductor racetrack pancake coils**
Hyun-jin Shin, Kwang Lok Kim, Yoon Hyuck Choi, Oh Jun Kwon, Yeonjoo Park and Haigun Lee*, Department of Materials Science and Engineering, Korea University, Korea
- PB19 (Withdrawn) Crystal structure of $(\text{Ru}_{0.5}\text{Cu}_{0.5})(\text{Sr}_{1.47}\text{Ba}_{0.2}\text{Nd}_{0.33})(\text{NdCe})\text{Cu}_2\text{O}_{10.6}$ compound**
H.K. Lee¹ and Y.I. Kim², ¹Physics, Kangwon National University, Department of Physics, Korea; ²Korea Research Institute of Standards and Science, Korea
- PB20 Absence of broken time reversal symmetry below the surface of (110)-oriented YBCO superconductors**
Hassan Saadaoui^{1*}, Zaher Salman¹, Thomas Prokscha¹, Hannu Huhtinen² and Elvezio Morenzoni¹, ¹Laboratory for Muon Spin Spectroscopy, Paul Scherrer Institut, 5232 Villigen PSI, Switzerland; ²Department of Physics, Wihuri Physical Laboratory, University of Turku, FI-20014 Turku, Finland
- PB21 Transport properties of the twin boundary of $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films on LaAlO_3 substrates**
Sung Hoon Lee¹, Sung-hak Hong¹, Jae-hyuk Choi² and Soon-gul Lee^{1*}, ¹Department of Display and Semiconductor Physics, Korea University, Korea; ²Division of Convergence Technology, Korea Research Institute of Standards and Science, Korea
- PB22 Displacement waves of oxygen atoms in the $\text{Bi}, \text{Pb}_{2223}$ lattice of superconducting composites annealed in an oxygen reduced atmosphere**
Tatiana Krinitzina*, Svetlana Sudareva, Elena Kuznetsova and Julia Blinova, Institute of Metal Physics, Ural Branch of Russian Academy of Sciences, Russia
- PB23 Irreversibility line in the CNT and carbon doped YBCO superconductors**
Sedigheh Dadras^{1*}, Nallayan Manivannan², Vahid Daadmehr¹ and Kee Hoon Kim³, ¹physics, Other Academic, Iran; ²physics, Other Academic, India; ³Other Academic, Korea
- PB24 Nonlocal excitations and 1/8 singularity in cuprates**
Yoshiro Kakehashi*, M. Atiqur R. Patoary and Sumal Chandra, Department of Physics, University of the Ryukyus, Japan
- PB25 Magnetic memory in a ceramic YBCO superconductor composed of sub-micron size grains**
Hiroyuki Deguchi^{1*}, Takuwa Ashida¹, Mitsuhiro Syudou¹, Masaki Mito¹, Makoto Hagiwara², Kuniyuki Koyama³ and Seishi Takagi¹, ¹Faculty of Engineering, Kyushu Institute of Technology, Japan; ²Faculty of Engineering and Design, Kyoto Institute of Technology, Japan; ³Faculty of Integrated Arts and Science, The University of Tokushima, Japan
- PB26 Phase diagram of high-tc superconductivity and antiferromagnetism revealed by Cu-NMR in multilayered cuprates**
Hidekazu Mukuda^{1*}, Sunao Shimizu¹, Akira Iyo² and Yoshio Kitaoka¹, ¹Osaka University, Japan; ²National Institute of Advanced Industrial Science and Technology (AIST), Japan
- PB27 Magnetism and superconductivity in CeCu_2Ge_2 under high pressures and magnetic fields**
Fuminori Honda^{1*}, Takashi Maeta², Yusuke Hirose², Atsushi Miyake³, Tetsuya Takeuchi⁴, Katsuya Shimizu³, Tomoko Kagayama³, Rikio Settai² and Yoshichika Onuki², ¹Graduate School of Engineering Science, Osaka University, Japan; ²Graduate School of Science, Osaka University, Japan; ³KYOKUGEN, Osaka University, Japan; ⁴Low Temperature Center, Osaka University, Japan
- PB28 Doping and temperature dependence of Fermi arc in cuprate superconductors**
Shiping Feng*, Huaisong Zhao and Lulin Kuang, Department of Physics, Beijing Normal University, China

POSTER PRESENTATION**July 9 (Mon)****PB29 Static spin correlation in $\text{Pr}_{2-x}\text{Ca}_x\text{CuO}_4$ Studied by neutron scattering**

Kenji Tsutsumi^{1*}, Tomohiro Miura¹, Masanori Enoki², Kentaro Sato³, Masato Matsuura⁴, Kazuyoshi Yamada⁵ and Masaki Fujita⁶, ¹*Department of Physics, Tohoku University, Japan;* ²*Kyushu Institute Technology, Japan;* ³*Department of Physics, Tohoku university, Japan;* ⁴*IMR, Tohoku University, Japan;* ⁵*WPI, Tohoku University, Japan;* ⁶*IMR, Tohoku University, Japan*

PB30 High-energy neutron scattering study of spin excitation in slightly-overdoped $\text{La}_{1.62}\text{Sr}_{0.18}\text{CuO}_4$

Kentaro Sato^{1*}, Masato Matsuura², Masaki Fujita², Kenji Tsutsumi¹, Masanori Enoki³ and Kazuyoshi Yamada⁴, ¹*Physics, Tohoku University, Japan;* ²*IMR, Tohoku University, Japan;* ³*Kyushu Institute of Technology Graduate School of Life Science and Systems Engineering, Japan;* ⁴*WPI, Tohoku University, Japan*

PB31 Quantized massive gauge fields around the doped holes in high- t_c cuprates and the relation to iron pnictides

Ikuko Kanazawa*, *Physics, Tokyo Gakugei University, Japan*

PB32 Ho-doping effect on the static stripe order in La_{214} superconductor

Masaki Fujita^{1*}, Masanori Enoki², Satoshi Iikubo², Kenji Tsutsumi³, Kentaro Sato³, Masato Matsuura¹ and Kazuyoshi Yamada⁴, ¹*Institute for Materials Research, Tohoku University, Japan;* ²*Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology, Japan;* ³*Department of Physics, Tohoku University, Japan;* ⁴*World Premier International Research Center, Tohoku University, Japan*

PB33 High field paramagnetic meissner effect in Ca doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals

Valdemar Vieira^{1*}, Augusto Falck¹, Fabio Dias¹, Douglas Da Silva¹, Paulo Pureur², Jacob Schaf² and Frederik Fabris³, ¹*Instituto de Fisica e Matematica, UFPEL, Brazil;* ²*Instituto de Fisica, UFRGS, Brazil;* ³*Dresden High Magnetic Field Laboratory, HZ Dresden-Rossendorf, Germany*

PB34 Growth of a-axis oriented thin films of infinite-layer $\text{Sr}_{1-x}\text{La}_x\text{CuO}_2$

Hiroyuki Akatsuka*, Keita Sakuma, Kenji Ueda and Hidehumi Asano, *Crystalline Materials Science, Nagoya University, Japan*

PB35 Thermal stability of an epoxy-impregnated HTS racetrack coil without turn-to-turn insulation for rotating machines

Oh Jun Kwon, Kwang Lok Kim, Yoon Hyuck Choi, Hyun-jin Shin and Haigun Lee*, *Department of Materials Science and Engineering, Korea University, Korea*

PB36 Design, fabrication, and testing of a cooling system using solid nitrogen for a 3 T/60-mm RT bore superconducting HGMS

Jung-bin Song, Kwang Lok Kim, Dong Gyu Yang, Yoon Hyuck Choi, Jongseok Lee and Haigun Lee*, *Department of Materials Science and Engineering, Korea University, Korea*

PB37 Purification of chemical mechanical polishing wastewater using a 2G HTS high gradient magnetic separation system

Dong Gyu Yang, Jung-bin Song, Young-gyun Kim, Jongseok Lee, Yeonjoo Park and Haigun Lee*, *Department of Materials Science and Engineering, Korea University, Korea*

PB38 Effect of liquid cryogen on a 2G HTS magnet using a mixed cryogen cooling system

Kwang Lok Kim, Jung-bin Song, Yoon Hyuck Choi, Dong Gyu Yang and Haigun Lee*, *Department of Materials Science and Engineering, Korea University, Korea*

PB39 Removal of silica and copper ions from CMP wastewater via magnetic seeding aggregation using superconducting HGMS

Jongseok Lee, Jung-bin Song, Dong Gyu Yang, Yeonjoo Park and Haigun Lee*, *Department of Materials Science and Engineering, Korea University, Korea*

POSTER PRESENTATION**July 9 (Mon)****PB40 Joint characteristics of ReBCO-coated conductors using various fusion splicing techniques**

Yeonjoo Park¹, Hyun-jin Shin¹, Young-gyun Kim¹, Young Kun Oh² and Haigun Lee^{1*}, ¹*Department of Materials Science and Engineering, Korea University, Korea;* ²*K-joins Co., Korea*

PC: Superconductivity V

July 9 (Mon), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: H. Mukuda (Osaka University, Japan)

PC01 (Withdrawn) Bulk electronic structure of LaRu_2P_2 probed by soft X-ray angle-resolved photoemission spectroscopy (SX-ARPES)

E. Razzoli¹, M. Kobayashi¹, V. N. Strocov¹, B. Delley¹, Z. Bukowski², J. Karpinski³, N. C. Plumb¹, M. Radovic¹, J. Chang¹, T. Schmitt¹, L. Patthey¹, J. Mesot¹ and M. Shi^{1*}, ¹*Paul Scherrer Institute, Switzerland;* ²*Laboratory for Solid State Physics, ETH Zurich, Switzerland;* ³*Laboratory for Solid State Physics, ETH Zurich, Switzerland*

PC02 Superlattice quantum critical point in the cubic metal $(\text{Sr/Ca})_3\text{Ir}_4\text{Sn}_{13}$

Lina Esther Klintberg¹, Swee Kuan Goh^{1*}, Patricia Alireza¹, Paul Saines¹, David Tompsett¹, Peter Logg¹, Jinhu Yang², Bin Chen², Kazuyoshi Yoshimura² and Malte Grosche¹, ¹*University of Cambridge, United Kingdom;* ²*University of Kyoto, Japan*

PC03 (Withdrawn) Unconventional superconductivity in PuCoIn_5 : An NQR investigation.

Hiroshi Yasuoka¹, Georgios Koutroulakis^{1*}, Hiroyuki Chudo², Eric D. Bauer¹ and Joe D. Thompson¹, ¹*Los Alamos National Laboratory, USA;* ²*Advanced Science Research Center, Japan Atomic Energy Agency, Japan*

PC04 Pressure effect on the structural and superconducting transitions in a caged compound $\text{PrRh}_2\text{Zn}_{20}$

Y Sugano¹, T Ohsuka¹, K Umeda^{2*}, N Nagasawa¹, T Onimaru¹ and T Takabatake¹, ¹*AdSM, Hiroshima University, Kagamiyama 1-3-1, Higashi-Hiroshima 739-8530, Japan;* ²*N-BARD, Hiroshima University, Kagamiyama 1-3-1, Higashi-Hiroshima 739-8526, Japan*

PC05 Phonon raman scattering of YB_6

Koichi Yukawa^{1*}, Hisamitu Bandou¹, Norio Ogita¹, Masayuki Udagawa¹, Fumitoshi Iga² and Takumi Hasegawa¹, ¹*Graduate School of Integrated Arts and Sciences, Hiroshima University, Higashi-Hiroshima 739-8521, Japan;* ²*Graduate School of Science & Engineering, Ibaraki University, 2-1-1 Bunkyo, Mito 3 10-0056, Japan*

PC06 Vortex lattice structures in spin-triplet superconductors with weak spin-orbit coupling

Shuhei Takamatsu^{1*} and Youichi Yanase², ¹*Graduate School of Science and Technology, Niigata University, Japan;* ²*Faculty of science, Niigata University, Japan*

PC07 Effect of the magnetic trapped flux on the heat capacity of the low-temperature superconductors: $\text{Pb}, \text{La}, \text{Sn}$

Sergey Mikhailovich Podgornyykh^{1*}, Veronika Myakon'kikh² and Veronika Dyakina³, ¹*Institute of Metal Physics, Ural Federal University, Russia;* ²*Ural Federal University, Russia;* ³*Institute of Metal Physics, Russia*

PC08 A novel superconductivity in Ir oxides with large spin-orbit coupling

Hiroshi Watanabe*, Tomonori Shirakawa and Seiji Yunoki, *RIKEN, Japan*

PC09 Fermi surface studies of $\text{Sr}_3\text{Ir}_4\text{Sn}_{13}$ via the Shubnikov-de Haas effect

Swee K. Goh^{1*}, Lina Klintberg¹, David A. Tompsett¹, Sven Friedemann¹, Stan Tozer², Jinhu Yang³, Bin Chen³, Kazuyoshi Yoshimura³ and Malte Grosche¹, ¹*University of Cambridge, United Kingdom;* ²*National High Magnetic Field Laboratory, Florida State University, USA;* ³*Kyoto University, Japan*

PC10 Magnetism in $\text{CeIr}(\text{Si}_x\text{Ge}_{1-x})_3$ compounds

Jan Prokleska*, Jiri Pospisil, Marie Kratochvilova and Vladimir Sechovsky, *DCMP, Charles University, Ke Karlovu 5, 121 16, Prague, Czech Republic*

POSTER PRESENTATION**July 9 (Mon)****PC11 Superconductivity at 5.2K in ZrTe₃ polycrystals**P. L. Paulose* and C. S. Yadav, *Tata Institute of Fundamental Research, India***PC12 Coexistence of superconductivity and antiferromagnetism in CeNi_{0.8}Bi₂**Soo-when Kim¹, Soohyun Kim¹, Kyujoon Lee¹, Adrian Hiller², Devashibhai Adroja² and Myung-hwa Jung^{1*},
¹*Department of Physics, Sogang University, Korea; ²Science and Technology Facilities Council, United Kingdom***PC13 Optical studies of superconducting InN thin film**H. L. Liu^{1*}, C. Y. Liu¹, C. R. Lu¹, D. C. Ling² and P. H. Chang³, ¹*Department of Physics, National Taiwan Normal University, Taiwan; ²Department of Physics, Tamkang University, Taiwan; ³Department of Materials and Mineral Resources Engineering, National Taipei University of Technology, Taiwan***PC14 Lateral Josephson junction induced by inverse proximity effect**Lu-kuei Lin¹, Ssu-yen Huang¹, Jin-hua Huang² and Shang-fan Lee^{1*}, ¹*Institute of Physics, Academia Sinica, Taiwan; ²Materials Science and Engineering, National Tsing Hua University, Taiwan***PC15 ¹³C NMR study of charge fluctuation induced superconductivity in**beta"--(BEDT-TTF)4[(H₃O)Ga(C₂O₄)₂]-C₆H₅NO₂
Yoshihiko Ihara*, Harumi Seki and Atsushi Kawamoto, *Department of Physics, Graduate School of Science, Hokkaido university, Japan***PC16 Ac susceptibility components of a thin type-II superconducting annulus carrying a radial current**Aliakbar Babaei Brojeny*, Mostafa Molavi, Asghar Sharbaf Zadeh and Mahdi Sohrabi, *Department of Physics, Isfahan University of Technology, 84156-83111, Iran***PC17 Pressure evolution of superconductivity in β-pyrochlore oxides**Takeshi Matsubara¹, Takayuki Isono², Daisuke Iguchi¹, Yo Machida¹, Koichi Izawa^{1*}, Bernard Salce³, Jacques Flouquet³, Hiroki Ogsu², Jun-ichi Yamaura² and Zenji Hiroi², ¹*Department of physics, Tokyo Institute of Technology, Meguro, Tokyo 152-8551, Japan; ²ISSP, University of Tokyo, Kashiwa, Chiba 277-8581, Japan; ³SPSMS, CEA-Grenoble, 38054 Grenoble Cedex 9, France***PC18 Inverse magnetic proximity effects in superconducting Sn-Ni nanoparticle assemblies**Chi-hung Lee, Yen-cheng Chen, Chin-wei Wang and Wen-hsien Li*, *Physics, National Central University, Taiwan***PC19 Pressure study on anisotropic electrical resistivity of Hg-doped CeRhIn₅**Soonbeom Seo¹, Sol Ju¹, E.d. Bauer², J.d. Thompson² and Tuson Park^{1*}, ¹*Physics, Sungkyunkwan University, Korea; ²Physics, Los Alamos National Laboratory, USA***PC20 Control of superconductivity in parity mixing superconductors Li₂T₃B(T:Pt,Pd) by non-magnetic impurity and defect doping**Guizhi Bao¹, Gaku Eguchi², Akiko Ono³, Yoshihiko Inada⁴, Yoshiteru Maeno² and Guo-qing Zheng¹
¹*Department of Physics, Okayama University, Japan; ²Department of Physics, Graduate School of Science, Kyoto University, Japan; ³Graduate School of Education, Okayama university, Japan; ⁴Graduate school of Natural Science and Technology, Graduate School of Education, Okayama university, Japan***PC21 Pressure-induced metal-insulator transition of Mott insulator Ba₂I₂O₄**Daisuke Orii^{1*}, Masafumi Sakata¹, Atsushi Miyake¹, Katsuya Shimizu¹, Hirotaka Okabe², Masaaki Isobe², Eiji Muromachi² and Jun Akimitsu³, ¹*KYOKUGEN, Osaka Univ, Japan; ²NIMS, Japan; ³Aoyama Gakuin Univ, Japan***PC22 Charge and spin order of charge stripe ordered La_{2-x}Sr_xCoO₄**Paul G. Freeman¹, E. Wechke², E. Schierle², A. T. Boothroyd³ and D. P³, ¹*Helmholtz-Zentrum Berlin, Germany; EPFL, Lausanne, Switzerland; ILL, Grenoble, France; ²Helmholtz-Zentrum Berlin, Germany; ³Department of Physics, Oxford University, United Kingdom***POSTER PRESENTATION****July 9 (Mon)****PC23 Strong enhancement of superconductivity in inorganic electride 12CaO•7Al₂O₃:e- under high pressure**Shigeki Tanaka^{1*}, Tomoki Kato¹, Atsushi Miyake¹, Tomoko Kagayama¹, Katsuya Shimizu¹, Sung Wng Kim², Satoru Matsuishi³ and Hideo Hosono⁴, ¹*KYOKUGEN, Osaka University, Japan; ²Frontier Research Center, Tokyo Institute of Technology, Japan; ³Materials and Structures Laboratory, Tokyo Institute of Technology, Japan; ⁴Frontier Research Center, Materials and Structures Laboratory, Tokyo Institute of Technology, Japan***PC24 Superconductivity in conical magnets**Gertrud Zwicknagl, *Technische Universitaet Braunschweig, Germany***PC25 Observation of Bose-metallic phase in Ta Films**Sungyu Park* and Eunseong Kim, *Department of physics, Center for Supersolid & Quantum matter Research and Department of Physics, KAIST, Daejeon, 305-701, Korea***PC26 Non-trivial vortex dynamics in a superconducting Corbino disk**Masaru Kato and David E. Fujibayashi, *Department of Mathematical Sciences, Osaka Prefecture University, Japan***PC27 Coexistence of ferromagnetism and superconductivity in single-phase Bi₃Ni nanostructures**Thomas Herrmannsdoerfer^{1*}, Richard Skrotzki¹, Rico Schoenemann¹, Yurii Skourski¹, Joachim Wosnitza¹, Daniel Koehler², Regine Boldt² and Michael Ruck², ¹*Dresden High Magnetic Field Laboratory, Helmholtz-Zentrum Dresden-Rossendorf, Germany; ²Department of Chemistry and Food Chemistry, TU Dresden, Germany***PC28 (Withdrawn) Observation of twofold symmetry breaking in the gap function of heavy-fermion superconductor UPt₃**Yo Machida¹, Atsushi Itoh¹, Yoshitaka So¹, Koichi Izawa^{1*}, Yoshinori Haga², Etsuji Yamamoto², Noriaki Kimura³ and Yoshichika Onuki⁴, ¹*Department of Physics, Tokyo Institute of Technology, Meguro, Tokyo 152-8551, Japan; ²Advanced Science Research Center, Japan Atomic Energy Agency, Tokai, Ibaraki 319-1195, Japan; ³Graduate School of Science and Center for Low Temperature Science, Tohoku Universit, Miyagi 980-8577, Japan; ⁴Graduate School of Science, Osaka University, Toyonaka, Osaka 560-0043, Japan***PC29 (Withdrawn) Investigation of the three-dimensional electronic structure of MgB₂ by soft X-ray angle-resolved photoelectron spectroscopy**Y. Sassa^{1*}, M. Mansson¹, B. M. Wojek², M. Kobayashi³, V. Strocov³, O. Tjernberg², N. D. Zhigadlo¹ and B. Batlogg¹ ¹Laboratory of Solid State Physics, ETH Zurich, CH-8093 Zurich, Switzerland; ²Materials Physics, Royal Institute of Technology KTH, S-16440 Kista, Sweden; ³Swiss Light Source, Paul Scherrer Institute, CH- 5234 Villigen PSI, Switzerland**PC30 Vortex channeled effect in Nb thin film with artificial pinning array**Tian-chiuan Wu^{1*}, Lance Horng², Jong-ching Wu² and Rong Cao², ¹*Department of Electrical Engineering, Nation Formosa University, Taiwan; ²Department of Physics, National Changhua University of Education, Taiwan***PC31 Role of the third dimension on the spectral property and transport behaviour in layered cuprates**Bhagya Sindhu Tewari, *Physics, University of Petroleum and Energy Studies, Dehradun, India***PD: Heavy fermions I**

July 9 (Mon), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: S. Sebastian (Cambridge University, UK)

PD01 Ground dielectric state of the Mott-doped materialVladimir Gavrichkov*, *Krasnoyarsk, Kirensky Institute of Physics, Russia*

POSTER PRESENTATION

July 9 (Mon)

PD02 Temperature-dependent phonon anomalies in uranium and plutonium compounds

Peter S Riseborough*, Physics, Temple University, USA

PD03 (Withdrawn) Non-linear conductivity of resistive oxides: truths and myths

B. - Fisher*, J. - Genossar, L. - Patlagan and G. M. Reisner, Physics, Technion, Israel

PD04 The modulated spin liquid and hidden order in URu_2Si_2

Sébastien Burdin, Bordeaux University, France

PD05 Fermi-surface evolution in Yb-substituted CeCoIn_5

Joachim Wosnitza^{1*}, Andrey Polyakov¹, Andrea D. Bianchi², S. Blackburn², B. Prevost², G. Seyfarth² and Michel Cote² ¹Hochfeld-Magnetlabor Dresden, Helmholtz-Zentrum Dresden-Rossendorf, Germany; ²Department de Physique and RQMP, Université de Montréal, Montreal H3C 3J7, Canada

PD06 Spin exciton formation inside the hidden order phase of CeB_6

Alireza Akbari and Peter Thalmeier, MPI-CPFS, Germany

PD07 Antiferromagnetic fluctuation in hidden order phase of $\text{U}(\text{Ru},\text{Rh})_2\text{Si}_2$

Makoto Yokoyama^{1*}, Kenichi Tenya² and Hiroshi Amitsuka³, ¹Faculty of Science, Ibaraki University, Japan; ²Faculty of Education, Shinshu University, Japan; ³Graduate School of Science, Hokkaido University, Japan

PD08 Pressure effect on the field-induced ordered phase in heavy fermion compound $\text{YbCo}_2\text{Zn}_{20}$

Tetsuya Takeuchi¹, Yuki Taga², Shingo Yoshiuchi², Masahiro Ohya², Yusuke Hirose², Fuminori Honda², Rikio Settai² and Yoshichika Onuki², ¹Low Temperature Center, Osaka University, Japan; ²Graduate School of Science, Osaka University, Japan

PD09 ^{29}Si -NMR Study of antiferromagnet CeRh_2Si_2 using single crystals

Hironori Sakai, Yo Tokunaga, Shinsaku Kambe, Yuji Matsumoto, Tatsuma D Matsuda and Yoshinori Haga, Advanced Science Research Center, Japan Atomic Energy Agency, Japan

PD10 Bulk compressibility of orthorhombic $\text{YbFe}_2\text{Al}_{10}$ -type $\text{CeRu}_2\text{Al}_{10}$

Yukihiro Kawamura^{1*}, Kazuki Matsui¹, Keiichi Yamamoto¹, Yusuke Hori¹, Junichi Hayashi¹, Keiki Takeda¹, Chihiro Sekine¹ and Takashi Nishioka², ¹Muroran Institute of Technology, Japan; ²Kochi University, Japan

PD11 Ultrasound measurements on the skutterudite compound $\text{SmOs}_4\text{P}_{12}$

Yoshiki Nakanishi^{1*}, Gen Koseki¹, Dai Tamura¹, Kohei Kurita¹, Takeshi Saito¹, Minoru Koseki¹, Mitsuteru Nakamura¹, Masahito Yoshizawa¹, Masahito Yoshizawa¹, Yuya Koyota², Chihiro Sekine² and Takehiko Yagi³, ¹Iwate University, Japan; ²Muroran Institute of Technology, Japan; ³ISSP The University of Tokyo, Japan

PD12 YbRh_2Si_2 : Fermi surface and crystal-field splittings of a heavy-Fermion compound

Steffen Danzenbacher¹, Denis V. Yalikh¹, Kurt Kummer², Yuri Kucherenko³, Cornelius Krellner⁴, Christoph Geibel⁵, Serguei L. Molodtsov⁶, Ming Shi⁷, Luc Patthey⁷ and Clemens Laubschat^{1*}, ¹Institut für Festkörperphysik, Technische Universität Dresden, D-01062 Dresden, Germany; ²European Synchrotron Radiation Facility, FR-38043 Grenoble Cedex, France; ³Institute of Metal Physics, National Academy of Sciences of Ukraine, UA-03142 Kiev, Ukraine; ⁴Max-Planck-Institut für Chemische Physik fester Stoffe, D-01187 Dresden, Germany; ⁵Max-Planck-Institut für Chemische Physik fester Stoffe, D-01187 Dresden, Germany; ⁶European XFEL GmbH, D-22671 Hamburg, Germany; ⁷Swiss Light Source, Paul Scherrer Institute, CH-5232 Villigen-PSI, Switzerland

PD13 Single crystal growth and various electronic states in Yb-based compounds

Yusuke Hirose^{1*}, Shingo Yoshiuchi¹, Naoto Nishimura¹, Jyunya Sakaguchi¹, Kentaro Enoki¹, Ken Iwakawa¹, Yasunao Miura¹, Tetsuya Takeuchi², Kiyohiro Sugiyama¹, Fuminori Honda³, Etsuji Yamamoto⁴, Yoshinori Haga⁴, Masayuki Hagiwara⁵, Koichi Kindo⁶, Rikio Settai¹ and Yoshichika Onuki¹, ¹Graduate School of Science, Osaka University, Japan; ²Low Temperature Center, Osaka University, Japan; ³Graduate School of Engineering Science, Osaka University, Japan; ⁴Advanced Science Research Center, Japan Atomic Energy Agency, Japan; ⁵KYOKUGEN, Osaka University, Japan; ⁶ISSP, University of Tokyo, Japan

POSTER PRESENTATION

July 9 (Mon)

PD14 Physical properties under pressure in a heavy fermion superconductor CeIrIn_5

Naofumi Aso^{1*}, Yuki Tamaki¹, Yoshinao Takaesu¹, Masato Hedo¹, Takao Nakama¹, Kiyoharu Uchima², Kazuyuki Matsubayashi³, Yoshiya Uwatoko³, Yusuke Ishikawa⁴, Kazuhiko Deguchi⁴ and Noriaki K. Sato⁴, ¹Faculty of Science, University of the Ryukyus, Japan; ²General Education, Okinawa Christian Junior College, Japan; ³ISSP, University of Tokyo, Japan; ⁴Graduate School of Science, Nagoya University, Japan

PD15 Periodic Anderson model with correlated conduction electrons

Imre Hagymasi*, Kazumasa Itai and Jeno Solyom, Theoretical Solid State Physics, Wigner Research Centre for Physics, Hungarian Academy of Sciences, Hungary

PD16 Thermoelectric study of the metamagnetic behavior in $\text{YbCo}_2\text{Zn}_{20}$

Yo Machida¹, Tohru Ikeura¹, Koichi Izawa^{1*}, Shingo Yoshiuchi², Fuminori Honda², Rikio Settai² and Yoshichika Onuki², ¹Department of Physics, Tokyo Institute of Technology, Japan; ²Department of Physics, Osaka University, Japan

PD17 Raman scattering study of the hidden order state of URu_2Si_2

Jonathan Buhot¹, Marie-aude Measson^{1*}, Yann Gallais¹, Maximilien Cazayous¹, Alain Sacuto¹ and Dai Aoki², ¹Laboratoire Matériaux et Phénomènes Quantiques, UMR 7162 CNRS, Université Paris Diderot, France; ²SPSMS, UMR-E CEA / UJF-Grenoble 1, INAC, 38054 Grenoble, France

PD18 The evolution of superconductivity and magnetism in Pd-doped CeRhIn_5 and Ce_xRhIn_8

Marie Kratochvílová*, Klara Uhlirová, Jiri Prchal, Alexandra Rudajevova, Jeroen Custers and Vladimír Sečhovský, Department of Condensed Matter Physics, Faculty of Mathematics and Physics, Charles University, Czech Republic

PD19 Magnetic phase diagram of the new heavy fermion compound $\text{Ce}_2\text{PtIn}_{81}$

Marie Kratochvílová^{1*}, Klara Uhlirová¹, Jiri Prchal¹, Ivana Čisarová², Jeroen Custers¹ and Vladimír Sečhovský¹, ¹Department of Condensed Matter Physics, Faculty of Mathematics and Physics, Charles University, Czech Republic; ²Department of Inorganic Chemistry, Faculty of Science, Charles University, Czech Republic

PD20 Coexistence and competition of superconductivity, magnetism and charge density waves in rare-earth tri-telluride TbTe_3

Kazuhiko Deguchi, Hiroaki Iwase, Yuya Imai, Koji Yamamoto and Noriaki Sato, Department of Physics, Graduate School of Science, Nagoya University, Japan

PD21 Magnetic properties of $\text{Ce}_3\text{Rh}_4\text{Sn}_{13}$ and $\text{Ce}_3\text{Co}_4\text{Sn}_{13}$; a comparative study

Andrzej Słobarski*, Marcin Fijałkowski and Jerzy Goraus, Institute of Physics, University of Silesia, Poland

PD22 Thermoelectric properties of Kondo semiconductor $\text{CeRu}_4\text{As}_{12}$ prepared under high pressure

Chihiro Sekine^{1*}, Tomokazu Kawata¹, Yukihiro Kawamura¹ and Takehiko Yagi², ¹Graduate School of Engineering, Muroran Institute of Technology, Japan; ²Institute for Solid State Physics, The University of Tokyo, Japan

PD23 Single crystal growth and physical properties of $\text{UT}_2\text{Al}_{20}$ ($T=\text{transition metal}$)

Yuji Matsumoto¹, Tatsuma D Matsuda¹, Naoyuki Tateiwa², Etsuji Yamamoto¹, Yoshinori Haga¹ and Zachary Fisk³, ¹Advanced science research center, Japan atomic energy agency, Japan; ²Japan atomic energy agency, Japan; ³University of California, USA

PD24 Anisotropic c-f hybridization in a Kondo semiconductor $\text{CeFe}_2\text{Al}_{10}$

Yuji Muro¹, Keisuke Yutani², Jumpei Kajino², Takahiro Onimaru² and Toshiro Takabatake³, ¹Liberal Arts and Sciences, Toyama Prefectural University, Kurokawa 5180, Imizu 939-0398, Japan; ²AdSM, Hiroshima University, Kagamiyama 1-3-1, Higashi-Hiroshima 739-8530, Japan; ³AdSM and IAMR, Hiroshima University, Kagamiyama 1-3-1, Higashi-Hiroshima 739-8530, Japan

PD25 Cu-NMR studies of heavy-Fermion compound CeCu_6 under high magnetic fields

Keisuke Kuroda, Kyohei Morita, Hisashi Kotegawa, Hitoshi Sugawara and Hideki Tou*, Department of Physics, Kobe University, Japan

POSTER PRESENTATION

July 9 (Mon)

PE: Kondo Impurity and kondo lattice systems

July 9 (Mon), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Namjung Hur (Inha University, Korea)

PE01 The underscreened Anderson lattice : A model for uranium compounds.

Peter S Riseborough^{1*}, Sergio Magalhaes² and Bernard Coqblin³, ¹Physics, Temple University, USA; ²Inst. Fis., Univ. Fed. Fluminense, Rio de Janeiro, Brazil; ³L.P.S., CNRS-Universite Paris-Sud, 91405 Orsay, France

PE02 Transport properties of intermetallic compounds RCoGe₂ (R = Ce and La)

Yung-kang Kuo^{1*}, P. C. Chang² and C. S. Lue³, ¹National Dong Hwa University, Department of Physics, Taiwan²Department of Physics, National Dong Hwa University, Taiwan³National Cheng Kung University, National Dong Hwa University, Taiwan

PE03 The lattice Kondo effect - A fabric for superconducting correlations?

Oliver Bodensiek^{1*}, Thomas Pruschke¹ and Rok Zitko², ¹Department of Physics, University of Goettingen, 37077 Goettingen, Germany; ²Jozef Stefan Institute, Jamova 39, SI-1000 Ljubljana, Slovenia

PE04 Lifshitz transition with interactions in high magnetic fields: application to CeIn₃

Pedro Schlottmann*, Department of Physics, Florida State University, USA

PE05 Dynamical mean-field theory of indirect exchange between magnetic adatoms on metallic surfaces

Irakli Titvinidze*, Andrej Schwabe, Niklas Rother and Michael Potthoff, I. Institute of theoretical physics, University of Hamburg, Germany

PE06 Kondo effect near the Van Hove singularity in biased bilayer graphene

Stanislaw Lipinski* and Damian Krychowski, Institute of Molecular Physics, Polish Academy of Sciences, Poland

PE07 Indirect exchange between magnetic atoms on surfaces: From two impurities to diluted chains

Andrej Schwabe*, Irakli Titvinidze, Daniel Gutersloh, Anke Braun and Michael Potthoff, I. Institute of theoretical physics, University of Hamburg, Germany

PE08 ESR study of hybridization in some undoped Yb-based alloys

Vladimir Ivanshin*, Tatyana Litvinova and Eduard Gataullin, Institute of Physics, Kazan University, Russia

PE09 ESR study of influence of anionic and cationic substitutions in EuB₆ on the magnetic phase separation

Tatiana Semenovna Altshuler^{1*}, Yuriy Vladimirovich Goryunov¹, Anna Vasilievna Levchenko² and Vladimir Borisovich Filippov², ¹Russian Academy of Sciences, Kazan Physical-Technical Institute, Russia; ²National Academy of Sciences, Ukraine

PE10 High pressure synthesis of novel boron-cage compounds RB₁₂ (R=Gd, Sm)

Fumitoshi Iga^{1*}, Yusaku Egashira², Tomoaki Noguchi², Toshiro Takabatake², Akinori Kondo³, Koichi Kindo³, Shoji Yamanaka⁴, Kei Inumaru⁴, Norimasa Nishiyama⁵, Tetsuo Irfune⁵ and Hitoshi Yusa⁶, ¹Faculty of Science, Ibaraki University, Japan; ²Graduate School of ADSM, Hiroshima University, Japan; ³Institute for Solid State Physics, University of Tokyo, Japan; ⁴Graduate School of Engineering, Hiroshima University, Japan; ⁵Geodynamics Research Center, Ehime University, Japan; ⁶High pressure Science, National Institute Material Sciences, Japan

PE11 Magnetic anisotropy of tetragonal rare-earth compounds RRu₂Al₂B (R: rare-earth metals)

Eiichi Matsuoka^{1*}, Yo Tomiyama¹, Kotaro Iwasawa¹, Hitoshi Sugawara¹, Takahiro Sakura² and Hitoshi Ohta³

¹Department of Physics, Graduate School of Science, Kobe University, Japan; ²Center for Supports to Research and Education Activities, Kobe University, Japan; ³Molecular Photoscience Research Center, Kobe University, Japan

PE12 Collective magnetic resonance mode in CeB₆

A. V. Semeno^{1*}, V. V. Glushkov¹, N. E. Sluchanko¹, N. Yu. Shitsevalova², V. B. Filipov², A. V. Dukhnenko² and S. V. Demishev¹, ¹A.M.Prokhorov General Physics Institute RAS, Russia; ²Institute for Problems of Materials Science NAS, Ukraine

POSTER PRESENTATION

July 9 (Mon)

PE13 Transport and magnetic properties of CeFe₄Sb₁₂ synthesized under high pressure

Hitoshi Sugawara^{1*}, Masahito Sakoda¹, Eiichi Matsuoka¹, Takashi Saito², Sho Tatsuoka², Kenya Tanaka² and Hideyuki Sato², ¹Department of Physics, Kobe University, Japan; ²Department of Physics, Tokyo Metropolitan University, Japan

PE14 Interplay of Kondo effect and spin orbit coupling

Kalobaran Maiti*, Swapnil Patil, V R R Medicherla, R S Singh and E V Sampathkumaran, Department of Condensed Matter Physics, Tata Institute of Fundamental Research, India

PE15 Insulator-to-metal transition and magnetism of potassium metals loaded into regular cages of zeolite LSX

Takehito Nakano¹, Duong Thi Hanh¹, Nguyen Hoang Nam², Yasuhiro Owaki¹, Shingo Araki³ and Yasuo Nozue^{1*} ¹Department of Physics, Graduate School of Science, Osaka University, Japan; ²Hanoi University of Science, Viet Nam; ³Graduate School of Natural Science and Technology, Okayama University, Japan

PE16 1/(N-1) expansion for a finite U Anderson model with an SU(N) symmetry

Akira Oguri¹ and Rui Sakano², ¹Physics, Osaka City University, Japan; ²Applied Physics, University of Tokyo, Japan

PE17 Formation of the Kondo resonance band in CeCoGe₂: DFT+DMFT approach

Hong Chul Choi¹, B. I. Min², K. Halue³, G. Kotliar³ and J. H. Shim^{1*}, ¹Department of Chemistry, Pohang University of Science and Technology, Korea; ²Department of Physics, Pohang University of Science and Technology, Korea; ³Department of Physics, Rutgers University, USA

PE18 Charge ordering in the Kondo lattice model at quarter filling

Junki Yoshitake*, Takahiro Misawa and Yukitoshi Motome, Department of Applied Physics, The University of Tokyo, Japan

PE19 Angular-dependent magnetoresistance of the filled skutterudite CeOs₄As₁₂

Łukasz Bochenek*, Zygmunt Henkie and Tomasz Cichorek, Division of Magnetic Research, Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wroclaw, Poland, Poland

PF: Theory of strongly correlated matter I

July 9 (Mon), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Takashi Oka (The University of Tokyo, Japan)

PF01 Spin and charge correlation of electrons at variation of interorbital Coulomb interaction

Sergey Stepanovich Aplesnin¹ and Nataly Ivanovna Piskunova², ¹M.V. Reshetnev Siberian State Aerospace University, Russia; ²Omsk State Agrarian University, Russia

PF02 Superfluid state of repulsively interacting three-component fermionic atoms in optical lattices

Seiichiro Suga^{1*} and Kensuke Inaba², ¹University of Hyogo, Japan; ²NTT Basic Research Laboratories and JST CREST, Japan

PF03 Magnetism in complex oxides: A challenge for advanced ab-initio methods.

Alessio Filippetti, Dept. of Physics, CNR-IOM, University of Cagliari, Italy

PF04 Resonating Hartree-Fock Studies for spin fluctuations in the Hubbard model on triangular lattice

Norikazu Tomita*, Yamagata University, Japan

PF05 Theory of momentum-dependent variational ansatz to strongly correlated electron system

M. Atiqur R. Patoary* and Yoshiro Kakehashi, Univ. of the Ryukyu, Nishihara, Okinawa, Japan

PF06 Metal-insulator transition in orthorhombic Perovskite PbRuO₃

Young-joon Song¹ and Kwan-woo Lee^{2*}, ¹Department of Applied Physics, Graduate School, Korea University, Sejong, Korea; ²Department of Display and Semiconductor Physics, Korea University, Sejong, Korea

POSTER PRESENTATION

July 9 (Mon)

- PF07 (Withdrawn) Ferromagnetic semiconductor-metal transition in heterostructures of europium monoxide
Tobias Stollenwerk* and Johann Kroha, *Physikalisches Institut, University of Bonn, Germany*
- PF08 The temperature dependence of the staggered magnetisation in itinerant weak antiferromagnets
Nobukuni Hatayama¹, Rikio Konno^{1*} and Yoshinori Takahashi², ¹Kinki University Technical College, Japan; ²Graduate School of Material Science, University of Hyogo, Japan
- PF09 Theory of excitonic insulator in the two orbital Hubbard model: Variational cluster approach
Tatsuya Kaneko^{1*}, Kazuhiro Seki¹, Satoshi Nishimoto² and Yukinori Ohta¹, ¹Department of Physics, Chiba university, Japan; ²Institut fur Theoretische Festkoerperphysik, IFW Dresden, Germany
- PF10 Layered chalcogenide Ta₂NiSe₅ as a candidate for excitonic insulators - theoretical aspects
Tatsuya Kaneko^{1*}, Tatsuya Toriyama¹, Takehisa Konishi² and Yukinori Ohta¹, ¹Department of Physics, Chiba university, Japan; ² Graduate School of Advanced Integration Science, Chiba university, Japan
- PF11 Electric dipolar susceptibility of the Anderson-Holstein model
Takahiro Fuse* and Takashi Hotta, *Department of Physics, Tokyo Metropolitan University, Japan*
- PF12 Insulator version of the double-exchange ferromagnetism
Yukinori Ohta^{1*}, Satoshi Nishimoto² and Kyohei Nakano¹, ¹Department of Physics, Chiba University, Japan; ²Institute for Theoretical Solid State Physics, IFW-Dresden, Germany
- PF13 Metallic ferromagnetism in the 3D Hubbard model at finite temperature
Andre Neves Ribeiro and Claudio Andrade Macedo*, *Departamento de Fisica, Universidade Federal de Sergipe, Brazil*
- PF14 BCS-BEC crossover in the extended Falicov-Kimball model: Variational cluster approach
Kazuhiro Seki^{1*}, Robert Eder² and Yukinori Ohta¹, ¹Department of Physics, Chiba University, Japan; ²Institut fuer Festkoerperphysik, Karlsruhe Institute of Technology, Germany
- PF15 Theory of the metal-insulator transition and charge/orbital states in V₆O₁₃
Takayoshi Nakayama^{1*}, Tatsuya Toriyama¹, Takehisa Konishi² and Yukinori Ohta¹, ¹Department of Physics, Chiba University, Japan; ² Graduate School of Advanced Integration Science, Chiba University, Japan
- PF16 Statistical dynamical mean field study of correlated fermions with disorder
Masaru Sakaida*, Kazuto Noda and Norio Kawakami, *Kyoto university, Japan*
- PF17 Analysis of many-body effects on anisotropic magnetic properties of YbB₁₂
Yoshihiro Kikuchi*, Yoshiki Imai and Tetsuro Saso, *Department of Physics, Saitama University, Japan*
- PF18 The ground state energies of spinless free fermions and hard-core bosons in 2D square lattices
Wenxing Nie¹ and Masaki Oshikawa^{2*}, ¹The Institute for Solid State Physics, The University of Tokyo, Japan; ²The institute for Solid State Physics, The University of Tokyo, Japan
- PF19 Correlation effect in ferromagnetic 3d transition metals
Muneyuki Nishishita¹, Sudhakar Pandey² and Dai Hirashima^{1*}, ¹Nagoya University, Japan; ²APTPC, Korea

PG: Magnetic materials and characterization methods

July 9 (Mon), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Clemens Ritter (Institut Laue Langevin, France)

- PG01 Ferrimagnetic compensation in a Fe₆₄Er₁₉B₁₇ glass, - the head of a dandelion, or the spokes of a wheel?
Andrew R. Wildes^{1*}, Neil Cowlam² and Nourh A. Al-senany³, ¹Institut Laue-Langevin, BP 156, 6 rue jules Horowitz, 38042 GRENOBLE Cedex 9, France; ²Department of Physics and Astronomy, University of Sheffield, SHEFFIELD, S3 7RH, United Kingdom; ³Department of Physics and Astronomy, University of Sheffield, SHEFFIELD, S3 7RH, King Abdulaziz University, Jeddah, Saudi Arabia, United Kingdom

POSTER PRESENTATION

July 9 (Mon)

- PG02 Evolution of reverse magnetized seed in monodomain uniaxial garnet film elements
Vladimir Skidanov*, *Nanoelectronics and Spintronics Department, Institute for Design Problems in Microelectronics RAS, Russia*
- PG03 Re-entrant structure and critical behaviour of Fe-Cr and Fe-V sigma-phase alloys
Reginaldo Barco¹, Paulo Pureur¹, G L F Fraga¹ and Stanislaw M Dubiel², ¹Physics, UFRGS Porto Alegre, Brazil; ²Physics and Applied Computer Science, AGH University Krakow, Poland
- PG04 Pressure effects in the ferromagnetic shape memory alloys Ni₂Mn_{1-x}Cu_xGa
Tomoya Miura¹, Yoshiya Adachi^{1*}, Keita Endo², Ryosuke Kainuma² and Takeshi Kanomata³, ¹Graduate School of Science and Engineering, Yamagata University, Japan; ²Department of Materials Science, Tohoku University, Japan; ³Faculty of Engineering, Tohoku Gakuin University, Japan
- PG05 Electronic state of Cr and collapse-like decrease of Fe magnetic moment in amorphous (Fe-Cr)B alloys
Kazuo Yano^{1*}, Tastuo Kamimori², Hiroaki Kanetsuki², Hatsuo Tange², Masayoshi Itou³, Yoshiharu Sakurai³, Eiji Kita⁴ and Hiromitsu Ino⁵, ¹College of Science and Technology, Nihon University, Japan; ²Faculty of Science, Ehime University, Japan; ³JASRI/SPRING8, Japan; ⁴Applied Physics, University of Tsukuba, Japan; ⁵Faculty of Engineering, University of Tokyo, Japan
- PG06 Micromagnetic simulation of CNT-MFM probes under magnetic field
Takashi Manago^{1*}, Hironori Asada² and Hiromi Kuramochi³, ¹Department of Applied Physics, Fukuoka university, Japan; ²Graduate School of Science and Engineering, Yamaguchi university, Japan; ³International Center for Materials Nanoarchitectonics, National Institute for Materials Science(NIMC), Japan
- PG07 Pressure effect of metamagnetic shape memory alloy Pd₂Mn_{1+x}Sn_{1-x}
Yohei Yamazaki¹, Takamitsu Akama², Hironari Okada^{1*}, Takeshi Kanomata¹ and Ryosuke Kainuma³, ¹Division of Engineering Graduate School, Tohoku Gakuin University, Japan; ²Faculty of Engineering, Tohoku Gakuin University, Japan; ³Graduate School of Engineering, Tohoku University, Japan
- PG08 Engineering of Co atomic 1-D chains on Ag(111) with tailored magnetic ground state
David Serrate^{1*}, Maria Moro¹, Marten Piatek², Jose Ignacio Pascual³ and Manuel Ricardo Ibarra¹, ¹Instituto de Nanociencia de Aragon, University of Zaragoza, Spain; ²Instituto de Ciencia de Materiales de Aragon, CSIC-University of Zaragoza, Spain; ³Institut fur Experimentalphysik, Freie Universitat Berlin, Germany
- PG09 Pressure-induced suppression of magnetic ordering in a chiral magnet Cr_{1/3}NbS₂
Takumi Imakyurei¹, Kousuke Nagai¹, Masaki Mito¹, Hiroyuki Deguchi¹, Jun-ichiro Kishine¹, Takayuki Tajiri², Katsuya Inoue³, Yuya Nakao⁴, Yusuke Kousaka⁴ and Jun Akimitsu⁴, ¹Faculty of Engineering, Kyushu Institute of Technology, Japan; ²Faculty of Science, Fukuoka University, Japan; ³Department of Chemistry and Institute for Advanced Materials Research, Hiroshima University, Japan; ⁴Department of Physics and Mathematics, Aoyama-Gakuin University, Japan
- PG10 Multiple ESR spectra in a chiral molecule-based magnet [Cr(CN)₆][Mn(R)-pnH(H₂O)](H₂O)
Takuma Nagano¹, Masaki Mito¹, Seishi Takagi¹, Hiroyuki Deguchi¹, Jun-ichiro Kishine¹, Yusuke Yoshida² and Katsuya Inoue², ¹Faculty of Engineering, Kyushu Institute of Technology, Japan; ²Department of Chemistry and Institute for Advanced Materials Research, Hiroshima University, Japan
- PG11 Valence and spin structures of TFe₂O₄ spinel oxides (T=Mn, Co, Ni, Cu) investigated by using synchrotron radiation
Jihoon Hwang¹, D. H. Kim¹, Eunsook Lee¹, J.-s. Kang¹, B.-g. Park², J.-y. Kim², S. W. Han³, S. C. Hong³, S. B. Kim⁴, Bongjae Kim⁵ and B. I. Min⁵, ¹Department of Physics, The Catholic University of Korea (CUK), Bucheon 420-743, Korea; ²Pohang Accelerator Laboratory, POSTECH, Pohang 790-784, Korea; ³Department of Physics, Ulsan University, Ulsan 680-749, Korea; ⁴ACE center, Konyang University, Nonsan 320-711, Korea; ⁵Department of Physics, POSTECH, Pohang 790-784, Korea

POSTER PRESENTATION**July 9 (Mon)****PG12 Probing the distance dependence of the magnetic exchange interaction with atomic resolution**

Alexander Schwarz^{1*}, Rene Schmidt¹, Roland Wiesendanger¹, Cesar Lazo² and Stefan Heinze³, ¹Institute of Applied Physics, University of Hamburg, Germany; ²Christian-Albrechts Universitat zu Kiel, Germany; ³Christian-Albrechts-Universitat zu Kiel, Germany

PG13 Electron correlation in a mixed valence perovskite system of Sr_{1-x}Ca_xRu_{0.5}Mn_{0.5}O₃

Tomohiro Ohnishi¹, Soichiro Mizusaki¹, Makoto Naito¹, Yoshihiko Noro², Masayoshi Itou³, Yoshiharu Sakurai³ and Yujiro Nagata¹, ¹Electrical Engineering and Electronics, Aoyama Gakuin Univ., Japan; ²Kawazoe Frontier Technologies Co. Ltd., Japan; ³Japan Synchrotron Radiation Research Institute, Japan

PG14 An x-ray scattering study of magnetic order in a pyrochlore iridate Eu₂Ir₂O₇

Daisuke Uematsu^{1*}, Hajime Sagayama¹, Taka-hisa Arima¹, Jun J Ishikawa² and Satoru Nakatsuji², ¹Department of Advanced Materials Science, The University of Tokyo, Japan; ²Institute of Solid State Physics, The University of Tokyo, Japan

PG15 Magnetic structure analyses by small-angle electron diffraction

Yoshihiko Togawa^{1*}, Tsukasa Koyama², Shigeo Mori² and Ken Harada², ¹Nanoscience and Nanotechnology Research Center (N2RC), Osaka Prefecture University, Japan; ²Department of Materials Science, Osaka Prefecture University, Japan

PG16 Raman scattering of metal-insulator transition in Cd₂Os₂O₇

Takumi Hasegawa^{1*}, Norio Ogita¹, Jun-ichi Yamaura², Zenji Hiroi² and Masayuki Udagawa¹, ¹Graduate School of Integrated Arts and Sciences, Hiroshima University, Higashi-Hiroshima, Hiroshima 739-8521, Japan; ²Institute for Solid State Physics, The University of Tokyo, Kashiwa, Chiba 277-8581, Japan

PG17 Effects of impurities in the chromic compound CuMoO₄

Takayuki Asano^{1*}, Taizo Nishimura¹, Katsutaka Kubo¹, Minoru Sanda¹, Keisuke Matsuura¹, Akira Matsuo², Yasuo Narumi³ and Koichi Kindo², ¹Department of Physcs, Kyushu University, Japan; ²Institute for Solid State Physics, University of Tokyo, Japan; ³Institute for Materials Research, Tohoku University, Japan

PG18 Effective exchange interactions in 5d transition metal oxides

Tomonori Shirakawa^{*}, Hiroshi Watanabe and Seiji Yunoki, Computational Condensed Matter Physics Laboratory, RIKEN, Japan

PG19 Magnetic and electrical transport behavior of Ir substituted NiTi shape memory alloy

Sandhya Dwevedi^{*} and A.k Nigam, Department of Condensed Matter Physics and Material Sciences, Tata Institute of Fundamental Research(TIFR), Mumbai 400 005, India

PG20 X-ray diffuse scattering of pyrochlore niobium oxides R₂Nb₂O₇

Shingo Toyoda¹, Hajime Sagayama¹, Kunihisa Sugimoto² and Takahisa Arima^{1*}, ¹Department of Advanced Materials Science, The University of Tokyo, Japan; ²Spring-8, Japan

PG21 Freezing of local lattice strains in the magnetic martensitic/ferroelastic material system

Yu Wang^{*}, Chonghui Huang, Xiaoping Song and Xiaobing Ren, Xi'an Jiaotong University, China

PG22 Magnetic structure of the new chiral compound [Cr(CN)₆][Mn(S)-pnH(DFM)](H₂O)

Cristina Saenz De Pipaon¹, Javier Campo^{1*}, Fernando Palacio¹, Jose Alberto Rodriguez-velamazan¹, Katsuya Inoue² and Hiroyuki Honda², ¹Materials Science Institute of Aragon (CSIC-University of Zaragoza), Spain; ²Hiroshima University, Japan

PG23 Origin of spin scalar chiral order in frustrated Kondo lattice model - higher-order Kohn anomaly and hidden positive biquadratic interaction -

Yutaka Akagi^{1*}, Masafumi Udagawa² and Yukitoshi Motome¹, ¹University of Tokyo, Japan; ²University of Tokyo, MPI PKS, Japan

POSTER PRESENTATION**July 9 (Mon)****PG24 Doping effects on the metal-insulator transition of Li₂RuO₃**

Seongil Choi¹, Junghwan Park¹, Sanghyun Lee¹, Deo-kyong Cho¹, T. Morioka², H. Nojiri² and J.- G. Park^{3*}, ¹Center for Strongly Correlated Materials Research, Seoul National University, Seoul 151-742, Korea; ²Institute for Materials Research, Tohoku University, Sendai 980-8577, Japan; ³Department of Physics & Astronomy, Seoul National University, Seoul 151-742, Korea

PG25 Ferromagnetism in hydrothermally treated glassy carbon

Hyun Jin Cho, Kyu Won Lee and Cheol Eui Lee^{*}, Department of physics and institute for Nano Science, Korea University, Korea

PG26 On the structure and symmetry of the spin glass state (SGS)

Jerzy Warczewski^{*}, Pawel Gusin and Daniel Wojcieszek, Institute of Physics, University of Silesia, Poland

PG27 Magnetic study of Fe/MgO/Fe and Fe/MgO/Fe/Co multilayer systems

Jitendra Pal Singh¹, Sanjeev Gautam², K Asokan¹, D. Kabiraj¹, D. Kanjilal¹, M Raju³, Braj Bhusan Singh⁴, S. Chaudhary³, R. Kotnala⁴ and Keun Hwa Chae^{2*}, ¹Inter University Accelerator Centre, Aruna Asaf Ali Marg-110067, New Delhi, India; ²Advanced Analysis Center, Korea Institute of Science and Technology (KIST), Seoul 136-791, Korea; ³Department of Physics, Indian Institute of Technology, New Delhi - 110 016, India; ⁴National Physical Laboratory, Dr. K. A. Krishnan Marg, New Delhi -110 012, India

PH: 3d transition metal oxides I

July 9 (Mon), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Jung Hoon Han (Sungkyunkwan University, Korea)

PH01 Ionic size effect on the spin gap nature of SrCu₂(TeO₃)₂Cl₂

C. N. Kuo, S. C. Chen and C. S. Lue^{*}, Department of Physics, National Cheng Kung University, Tainan 70101, Taiwan

PH02 Magnetism of SrM₂P₄O₁₄ (M²⁺ = 3d ions) investigated using neutron-scattering measurements

Masashi Hase^{1*}, Vladimir Yu. Pomjakushin², Lukas Keller², Andreas Doenni¹, Osamu Sakai¹, Tao Yang³, Rihong Cong³, Jianhua Lin³, Kiyoshi Ozawa¹ and Hideaki Kitazawa¹, ¹National Institute for Materials Science (NIMS), Japan; ²Paul Scherrer Institut (PSI), Switzerland; ³Peking University, China

PH03 Spin-Peierls-like lattice distortion and incommensurate magnetic structure of geometrically frustrated spinel CdCr₂O₄

J. H. Chung¹, J. M. S. Park², K. P. Hong², M. Matsuda³, H. Ueda⁴, Y. Ueda⁴ and S. H. Lee^{5*}, ¹Department of Physics, Korea University, Korea; ²Korea Atomic Energy Research Institute, Korea; ³Oak Ridge National Laboratory, Korea; ⁴The University of Tokyo, Japan; ⁵University of Virginia, USA

PH04 Interplay of magnetic order and structural distortions in multiferroic GdMnO₃ single crystals

Mathias Doerr^{1*}, Sahana Roessler², Martin Rotter², Aditya A. Wagh³, P. S. Anil Kumar³, Suja Elizabeth³, Steffen Wirth² and Michael Loewenhaupt¹, ¹Institut fur Festkorperphysik (IFP), Technische Universitat Dresden, Germany; ²Max-Planck-Institut fur Chemische Physik fester Stoffe Dresden, Germany; ³Department of Physics, Indian Institute of Science Bangalore, India

PH05 Uniaxial pressure effect on magnetic ordering in a frustrated ising antiferromagnet CoNb₂O₆

Satoru Kobayashi^{1*}, Hiromu Tamatsukuri², Chikafumi Kaneko², Yuki Honma², Taro Nakajima² and Setsuo Mitsuda², ¹Department of Materials Science and Engineering, Iwate University, Japan; ² Department of Physics, Faculty of Science, Tokyo University of Science, Japan

POSTER PRESENTATION**July 9 (Mon)****PH06 Thermal and magnetic properties of LiNiPO₄ olivine**

J. Wieckowski^{1*}, M. U. Gutowska¹, A. Szewczyk¹, Yu. Kharchenko², M. F. Kharchenko², M. Kowalczyk³, N. Nedelko¹, S. Lewinska¹, A. Slawska - Waniewska¹, A. Kulka⁴ and J. Molenda⁴, ¹Institute of Physics, Polish Academy of Sciences, Warsaw, Poland; ²B.Verkin Inst. for Low Temp. Phys. and Engineering, National Academy of Sciences of Ukraine, Kharkiv, Ukraine; ³Faculty of Materials Engineering, Warsaw University of Technology, Warsaw, Poland; ⁴Department of Hydrogen Energy, AGH University of Science and Technology, Cracow, Poland

PH07 Cr- and mo-doping effects on structural and orbital order phase transition in spinel-type Mn₂O₄

Kazuhiro Hemmi^{1*}, Ryuichiro Fukuta¹, Ece Uykur¹, Shigeki Miyasaka¹, Setsuko Tajima¹, Akiko Nakao², Hironori Nakao², Reiji Kumai² and Youichi Murakami², ¹Physics, Osaka University, Japan; ²PF/CMRC, KEK, Japan

PH08 Dopant-dependence on charge/orbital order in impurity doped layered manganites

Yuki Yamaki¹, Hironori Nakao², Yuichi Yamasaki², Youichi Murakami², Yoshio Kaneko³ and Yoshinori Tokura⁴, ¹Tohoku University CMRC/PIF, KEK, Japan; ²CMRC/PIF, KEK, Japan; ³ERATO-MF, JST CERG, RIKEN, Japan; ⁴ERATO-MF, JST CERG/CMRG, RIKEN University of Tokyo, Japan

PH09 Magnetic and nonmagnetic impurity effect on magnetic orderings of isosceles triangular lattice antiferromagnet CuMnO₂

Noriki Terada¹, Yoshinori Tsuchiya¹, Hideaki Kitazawa¹ and Naoto Metoki², ¹National Institute for Materials Science, Japan; ²Japan Atomic Research Agency, Japan

PH10 Resonant soft X-ray scattering studies on half-doped manganite LaSr₂Mn₂O₇

J.-S. Lee^{1*}, C.-C. Kao¹, C.S. Nelson², H. Jang³, K.-T. Ko³, S.B. Kim⁴, Y.J. Choi⁴, S.W. Cheong⁴, S. Smadici⁵, P. Abbamonte⁵ and J.-H. Park³, ¹SSRL, SLAC National Accelerator Laboratory, USA; ²BNL, USA; ³POSTECH, Korea; ⁴Rutgers University, USA; ⁵UIUC, USA

PH11 On the non-idle-spin behavior and the field-induced magnetic transitions of the trimer chain magnet Cu₃(OH)₄SO₄

Hyun-joo Koo¹, Reinhard K Kremer² and Myung-hwan Whangbo³, ¹Chemistry, Kyung Hee University, Korea; ²Max-Planck-Institut fur Festkorperforschung, Stuttgart, Germany; ³Chemistry, North Carolina State University, USA

PH12 Spin state of LaCoO₃ investigated from non-magnetic-ion substitution effect of Co sites

Shinichiro Asai*, Ryuji Okazaki, Yukio Yasui and Ichiro Terasaki, Department of Physics, Nagoya University, Japan

PH13 (Upgraded to oral) First-Principles Calculation of the A-Site Ordered Perovskite CaCu₃Fe₄O₁₂

Takuya Ueda¹, Mitsuru Kodera¹, Kunihiko Yamauchi¹ and Tamio Oguchi^{2*}, ¹Osaka University, Japan; ²Osaka University & JST-CREST, Japan

PH14 Soft x-ray absorption spectroscopy study of Prussian blue analogue MCo[Fe(CN)₆]H₂O

Nano-particles (M=Na, K, Rb)
Eunsook Lee¹, D.h. Kim¹, Jihoon Hwang¹, Nguyen Van Minh², In-sang Yang³, M. Sawada⁴, T. Ueno⁴ and J.-S. Kang^{1*} ¹Department of Physics, The Catholic University of Korea, Bucheon 420-743, Korea; ²Department of Physics, Hanoi National University of Education, Hanoi, Viet Nam; ³Department of Physics, Ewha Womans University, Seoul 120-750, Korea; ⁴Hiroshima Synchrotron Radiation Center, Hiroshima University, Higashi-Hiroshima 739-0046, Japan

PH15 Long-time variation of magnetic structure in multistep metamagnets Ca₃(Co-M)₂O₆: Effect of disorder

Taketo Moyoshi*, Rui Takahashi, Yuichiro Ito, Ryotaro Irie, Tetsuto Ide, Daiki Syoji and Kyoichiro Motoya, Faculty of Science and Technology, Tokyo University of Science, Japan

POSTER PRESENTATION**July 9 (Mon)****PH16 Study of magnetic properties of NdCo_{1-x}Ni_xO₃ (x = 0, 0.2, 0.4)**

Ravi Kumar¹, Vinod Kumar², Rajesh Kumar³, Dinesh Kumar Shukla⁴, Sunil Kumar Arora⁵ and I V Schwets⁶, ¹Centre for Materials Science and Engineering, National Institute of Technology, Hamirpur 177005 (H.P), India; ²Department of physics, National Institute of Technology, Hamirpur 177005 (H.P), India; ³Department of physics, National Institute of Technology, Hamirpur 177005 (H.P), India; ⁴Deutsches Elektronen Synchrotron DESY, 22607 Hamburg, Germany, Deutsches Elektronen Synchrotron DESY, 22607 Hamburg, Germany; ⁵School of Physics, Trinity College Dublin 2, ⁶School of Physics, Trinity College Dublin 2, Ireland; ⁶School of Physics, Trinity College Dublin 2, School of Physics, Trinity College Dublin 2, Ireland

PH17 Fluctuations of charge, orbital, and spin order in single layer manganite Pr_{0.5}Ca_{1.5}MnO₄

Ismudiani Puri Handayani^{1*}, Agung Nugroho², Nandang Mufti³, Syarif Riyadi¹, May On Tja², T.t.m Palstra¹ and P.h.m Van Loosdrecht¹, ¹Zernike Institute for Advanced Material, Netherlands; ²Bandung Institute of Technology, Indonesia; ³State University of Malang, Indonesia

PH18 Magnetic properties of spinel oxide CuCr₂O₄ investigated by NMR

Euna Jo, Soonchil Lee*, Changsoo Kim, Byeongki Kang and Sangil Kwon, Physics, KAIST, Korea

PH19 Magnetic frustration effects in the new colossal magnetoresistance oxide NaCr₂O₄

Hikaru Takeda^{1*}, Yasuhiro Shimizu¹, Masayuki Itoh¹, Hiroya Sakurai² and Eiji Takayama- Muromachi², ¹Department of Physics, Graduate School of Science, Nagoya University, Japan; ²National Institute for Materials Science, Japan

PH20 Site-dependent metal-insulator transition and orbital order in quasi-one-dimensional V₆O₁₃

Satoshi Aoyama¹, Yasuhiro Shimizu¹, Masayuki Itoh^{2*} and Yutaka Ueda³, ¹Department of Physics, Graduate School of Science, Nagoya University, Furo-cho, Chikusa-ku, Nagoya, Japan; ²Department of Physics, Graduate School of Science, Nagoya University, Japan; ³Institute for Solid State Physics, University of Tokyo, 5-1-5 Kashiwanoha, Kashiwa, Japan

PH21 Synthesis and characterization of CoMn₂O₄ nanopowders by a reverse Micelle processing

Hojung Kim and Dong Sik Bae*, Department of Convergence Materials Science and Engineering, Changwon National Univ., Korea

PH22 The patterning with a circular magnet array, its observation and domain switching in ferromagnetic ZnCoO:H

Won-kyung Kim, Seunghun Lee, Sang-uk Cho, Yong-chan Cho, Hideomi Koinuma and Se-young Jeong*, Cogno-Mechatronics Engineering, Pusan National University, Korea

PH23 Orbitally induced molecule formations in itinerant triangular vanadates

Yasuhiro Shimizu^{1*}, Ken-ichiro Matsudaira¹, Masayuki Itoh¹ and Yutaka Ueda², ¹Nagoya University, Japan; ²University of Tokyo, Japan

PI: 3d transition metal oxides II

July 9 (Mon), 13:30-15:30, Exhibition Hall 1 (1F)

Chairperson: Darren Peets (MPI, Germany)

PI01 Investigation of magnetocaloric effect in La_{0.45}Pr_{0.25}Ca_{0.3}MnO₃ by differential scanning calorimetry and thermal analysis

Aparna Devi M, Sujit Kumar Barik and Ramanathan Mahendiran*, Department of Physics, National University of Singapore, Singapore

PI02 Specific heat and magnetic properties of spinel compound FeV₂O₄

Shogo Kawaguchi*, Yoshiki Kubota and Hiroki Ishibashi , Department of Physical Science, Graduate School of Science, Osaka Prefecture University, Japan

POSTER PRESENTATION

July 9 (Mon)

- PI03** The crossover to checkerboard charge order: Magnetic excitations of charge-stripe ordered of $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4$
 Paul G Freeman¹, A. T. Boothroyd², D. Prabhakaran², K. Hradil³, R. A. Mole⁴ and S. R. Giblin⁵, ¹Helmholtz-Zentrum Berlin, Germany; ²EPFL, Lausanne, Switzerland; ³ILL, Grenoble, France; ²Department of Physics, Oxford University, United Kingdom; ³Technische Universität Wien, Austria; Institut für Physikalische Chemie, Universität Gottingen, Germany; ⁴Bragg Institute, ANSTO, Australia; ⁵ISIS Facility, Rutherford Appleton Laboratory, United Kingdom
- PI04** Magnetic properties of low-dimensional α and γ CoV_2O_6
 Marc Lenertz*, Jonathan Alaria, Daniel Stoeffler, Silviu Colis and Aziz Dinia, DCMI, Institut de Physique et Chimie des Matériaux de Strasbourg, CNRS - Université de Strasbourg, France
- PI05** Structural and magnetic properties of the parent compound $\text{T}'\text{-}\text{La}_2\text{CuO}_4$ of electron-doped cuprates
 Gwendolyne Pascua¹, Hubertus Luetkens¹, Marco Guenther², Roland Hord³, Lukas Keller⁴, Vladimir Pomjakushin⁴, Andreas Suter¹, Hemke Maeter², Alexander Buckow⁵, Barbara Albert³, Hans-henning Klauss² and Lambert Alff⁵, ¹Laboratory for Muon Spin Spectroscopy, Paul Scherrer Institute, CH-5232 Villigen PSI, Switzerland; ²Institut für Festkörperphysik, TU Dresden, DE-01069 Dresden, Germany; ³Eduard-Zintl-Institute of Inorganic and Physical Chemistry, TU Darmstadt, Petersenstr. 18, DE-64287, Darmstadt, Germany; ⁴Laboratory for Neutron Scattering, Paul Scherrer Institute, CH-5232 Villigen PSI, Switzerland; ⁵Institute of Materials Science, TU Darmstadt, Petersenstr. 23, DE-64287 Darmstadt, Germany
- PI06** Microscopic magnetic nature of the quasi-one-dimensional antiferromagnet $\text{BaCo}_2\text{V}_2\text{O}_8$
 Martin Mansson^{1*}, Krunoslav Prsa¹, Jun Sugiyama², Hiroshi Nozaki², Alex Amato³, Shojiro Kimura⁴, Kumiko Omura⁵, Masayuki Hagiwara⁵ and Andrey Zheludev¹, ¹Lab. for Solid State Physics, ETH Zurich, Switzerland; ²Toyota Central Research and Development Labs. Inc., Japan; ³LMU, Paul Scherrer Institut, Switzerland; ⁴Institute for Materials Research, Tohoku University, Japan; ⁵KYOKUGEN, Osaka University, Japan
- PI07** Detection of orbital wave in YVO_3 using inelastic neutron scattering
 Daichi Kawana¹, Youichi Murakami¹, Tetsuya Yokoo², Shinichi Itoh², Andrei T Savici³, Garrett E Granroth³, Kazuhiko Ikeuchi⁴, Hironori Nakao¹, Kazuaki Iwas⁵, Ryuichiro Fukuta⁶, Shigeki Miyasaka⁶, Setsuko Tajima⁶, Sumio Ishihara⁵ and Yoshinori Tokura⁷, ¹Condensed Matter Research Center, Institute of Materials Structure Science, KEK, Japan; ²Neutron Science Division, Institute of Materials Structure Science, KEK, Japan; ³Neutron Scattering Sciences Division, Oak Ridge National Laboratory, USA; ⁴Comprehensive Research Organization for Science and Society, Japan; ⁵Department of Physics, Tohoku University, Japan; ⁶Department of Physics, Osaka University, Japan; ⁷Department of Applied Physics, University of Tokyo, Japan
- PI08** Orbital occupation and magnetism of tetrahedrally coordinated Fe in $\text{CaBaFe}_4\text{O}_7$
 Nils Hollmann¹, Martin Valldor², Hua Wu², Zhiwei Hu¹, Navid Qureshi², Thomas Willers², Yi-ying Chin³, Julio Cesar⁴, Arata Tanaka⁵, Nicholas Brookes⁴ and Liu Hao Tjeng³, ¹Max-Planck-Institute for Chemical Physics of Solids, Dresden, Germany; ²II. Institute of Physics, University of Cologne, Germany; ³Max-Planck-Institute for Chemical Physics of Solids, Germany; ⁴European Synchrotron Radiation Facility, Grenoble, France; ⁵Department of Quantum Matter, ADSM, Hiroshima University, Japan
- PI09** Search for topological spin order in the multiferroic insulator Cu_2OSeO_3
 M. Wagner¹, T. Adams¹, A. Chacon², G. Brandl², H. Berger³, P. Lemmens⁴ and C. Pfleiderer¹, ¹Physik-Department, Technische Universität München, D-85748 Garching, Germany; ²Physik-Department and Forschungsneutronenquelle Heinz-Maier Leibniz, TU München, D-85748 Garching, Germany; ³Ecole Polytechnique Federale Lausanne, CH-1015 Lausanne, Switzerland; ⁴Institut für Physik, Technische Universität Braunschweig, Germany

POSTER PRESENTATION

July 9 (Mon)

- PI10** Studies of neutron scattering and bulk properties of honeycomb lattice Li_2MnO_3
 Sanghyun Lee¹, Sungil Choi¹, Jyeon Kim¹, Choongjae Won², Seongsu Lee³, Shin-ae Kim³, Namjung Hur² and Je-geun Park^{4*}, ¹Center for Strongly Correlated Materials Research, Seoul National University, Seoul 151-742, Korea; ²Department of Physics, Inha University, Incheon 402-751, Korea; ³Neutron Science Division, Korea Atomic Energy Research Institute, Daejeon 305-353, Korea; ⁴Department of Physics & Astronomy, Seoul National University, Seoul 151-742, Korea
- PI11** Magnetic and calorimetric properties of Mn_2GeO_4 single crystals
 Natalia Mihashenok*, Nikita Volkov, Klara Sablina, Alexander Balaev, Maxim Molokeev, Sergei Popkov and Dmitriy Velikanov, L.V. Kirensky Institute of Physics SB RAS, Russia
- PI12** Effect of doping on the magnetic structure of $\text{YMn}_{1-x}\text{M}_x\text{O}_3$ ($\text{M} = \text{Ga}, \text{Ti}$, $x \leq 0.1$)
 Neetika Sharma¹, Poonam Kumar², A. Das^{1*} and G. Ravi Kumar³, ¹Solid State Physics Division, Bhabha Atomic Research Centre Mumbai, India; ²UM - DAE Centre for Excellence in Basic Sciences University of Mumbai, Mumbai, India; ³Technical Physics Division, Bhabha Atomic Research Centre Mumbai, India
- PI13** Neutron diffraction and magnetic properties of $\text{Ba}_2\text{Co}_2\text{Fe}_{12}\text{O}_{22}:\text{Co}_2\text{Y}$
 Chan Hyuk Rhee¹, Jung Tae Lim¹, Sung Wook Yoon¹, Kwang Lae Cho¹, Sung Baek Kim² and Chul Sung Kim^{1*}, ¹Department of Physics, Kookmin University, Korea; ²Advancement for College Education Center, Konyang University, Korea
- PI14** Mössbauer studies of olivine $\text{Fe}_{1-y}\text{Mn}_y\text{PO}_4$
 Woo Jun Kwon, In Kyu Lee, Hee Seung Kim, In-bo Shim and Chul Sung Kim*, Department of Physics, Kookmin University, Korea
- PI15** (Withdrawn) Three-dimensional electronic structure of $\text{Na}_{0.85}\text{CoO}_2$
 Y. Sassa^{1*}, M. Mansson¹, B. M. Wojek², J. Chang³, M. Kobayashi⁴, J. Kanter¹, V. Strocov⁴, K. Mattenberger¹ and B. Batlogg¹, ¹Laboratory of Solid State Physics, ETH Zurich, CH-8093 Zurich, Switzerland; ²Materials Physics, Royal Institute of Technology KTH, S-16440 Kista, Sweden; ³Laboratory for synchrotron and neutron spectroscopy, Paul Scherrer Institute, CH-5234 Villigen PSI, Switzerland; ⁴Swiss Light Source, Paul Scherrer Institute, CH-5234 Villigen PSI, Switzerland
- PI16** Formation of stoichiometric of FeO synthesized under high pressure
 Yasushi Kanke¹, Takuro Yoshikawa², Hideto Yanagihara², Eiji Kita², Yorihiko Tsunoda³, Kiiti Siratori² and Kay Kohn³, ¹National Institute of Materials Science, Japan; ²Institute of Applied Physics, University of Tsukuba, Japan; ³School of Science and Engineering, Waseda University, Japan
- PI17** Charge and spin ordering in $\text{Sr}_4\text{Fe}_4\text{O}_{11}$ system
 Qiang Liu^{1,2,3}, Gwendolyne Pascua⁴, Alexander Komarek³, Zhiwei Hu³, Nils Hollmann³, Olivier Toulemonde², Hubertus Luetkens⁴, Gwilherm Nenert⁵, Alain Wattiaux², Liu Hao Tjeng³, ¹II. Physikalisches Institut, Universität zu Köln, Germany; ²Institut de Chimie de la Matière Condensée de Bordeaux, France; ³Max-Planck-Institut für chemische Physik fester Stoffe, Dresden, Germany; ⁴Laboratory for Muon Spin Spectroscopy, Paul Scherrer Institute, CH-5232 Villigen PSI, Switzerland; ⁵Institut Laue-Langevin, 38042 Grenoble Cedex 9, France
- PI18** Catalyst structure determination from magnetic properties
 Jorge Hernandez-velasco^{1*}, Javier Garcia-garcia² and Angel Landa-canovas¹, ¹Energy, ICMM CSIC, Spain; ²CME UCM, Spain
- PI19** Synthesis and characterization of the mixed perovskite $\text{Ba}_{1-x}\text{La}_x\text{Ti}_{12}\text{Mn}_{12}\text{O}_3$ as a function of La-doping
 Raimundo Lora-serrano^{1*}, Ulisses F Kaneko², Eduardo Granado², Ali F. Garcia-flores², Pablo Marques-ferreira¹, Fernando A. Garcia³ and Jose G. S. Duque⁴, ¹Instituto de Física, Universidade Federal de Uberlândia, 38400-902 Uberlândia-MG, Brazil; ²Instituto de Física 'Gleb Wataghin' UNICAMP, CP 6165, 13083-970 Campinas, SP, Brazil; ³Max Planck Institute for Chemical Physics of Solids, D-01187 Dresden, Germany; ⁴Nucleo de Física, Campus Itabaiana, UFS, 49500-000, Itabaiana, SE, Brazil

POSTER PRESENTATION**July 9 (Mon)**

- PJ20 Theoretical modeling of the magnetic properties and magnetocaloric effect in $\text{La}_{0.1}\text{Ca}_{0.9}\text{MnO}_3$ manganite by Monte Carlo study
Oksana Pavlukhina*, Vasily Buchelnikov and Vladimir Sokolovskiy, Chelyabinsk State University, Russia
- PJ21 (Withdrawn) Pressure effects on magnetic ordering transitions of bilayer manganites $\text{Pr}(\text{Sr}_{1-x}\text{Ca}_x)_2\text{Mn}_2\text{O}_7$ ($x=0,1$) by neutron diffraction and muon spin resonance
Guochu Deng^{1*}, Denis Cheptiakov², Ekaterina Pomjakushina³ and Kazimierz Conder³, ¹Bragg Institute, Australian Nuclear Science and Technology Organization, Australia; ²Laboratory for Neutron Scattering (LNS), Laboratory for Neutron Scattering, Paul Scherrer Institut, Switzerland; ³Laboratory for Developments and Methods, Paul Scherrer Institute, Switzerland
- PJ22 Magnetization reversal and chemical pressure effect in the electron doped manganite $\text{Ca}(\text{Mn}_{1-x}\text{Sb}_x)\text{O}_3$
Syuya Ohuchi¹, Michiaki Matsukawa^{1*}, Satoru Kobayashi¹, Shigeki Nimori² and Ramanathan Suryanarayanan³, ¹Dep. of Materials Science and Engineering, Iwate University, Japan; ²National Institute for Materials Science, Japan; ³Université Paris-Sud, France
- PJ23 The effect of Cu substitution on the structural, electrical and magnetic properties of $\text{LaMn}_{1-x}\text{Cu}_x\text{O}_3$ manganites
Parviz Kameli*, H. Vaezi, B. Aslbeiki and H. Salamat, Isfahan University of Technology, Iran
- PJ24 Investigation of the structural and magnetic properties of $\text{La}_{0.9}\text{Sr}_{0.1}\text{MnO}_3$ nanoparticles
M. Eshraghi^{1*}, M. Roshanmehr¹, F. Khademi², P. Kameli² and H. Salamat², ¹Department of Physics, Payame Noor University, Iran; ²Department of Physics, Isfahan University of Technology, Iran

PJ: Spin-dependent transport I

July 9 (Mon), 13:30~15:30, Exhibition Hall 1 (1F)

Chairpersons: A. Manchon (King Abdullah University of Science and Technology, Saudi Arabia)
J. Ieda (Japan Atomic Energy Agency, Japan)

- PJ01 Magnetotransport properties of anisotropic Co(tCo)/Au(tAu) multilayers
Conrad Rizal¹, Parshu R. Gyawali² and Ramesh K. Pokharel³, ¹Electrical and Computer Engineering, University of British Columbia, Canada; ²Laboratory for Nanospintronics and Nanoelectronics, Catholic University of America, USA; ³Electrical and Communication Engineering, Kyushu University, Japan
- PJ02 The new type of current and spin polarization oscillations
Alexander I Kopeliovich and Pavel V Pyshkin, theoretical physics, B.Verkin Institute for Low Temperature Physics and Engineering of the National Academy of Sciences, Ukraine
- PJ03 Pressure-enhanced giant magnetoresistance in Fe/Cr magnetic multilayers
Gendo Oomi*, Kurume Institute of Technology, Japan
- PJ04 Spin current-induced by sound wave
Igor Ivanovich Lyapilin, Institut Metal Physics RAS, Russia
- PJ05 Enhancement of magnetocaloric width in $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ compounds with remain the composition ratio between Mn³⁺ and Mn⁴⁺
Qing Ji and Xiaoshan Wu*, Physics, Nanjing University, China
- PJ06 Output voltage calculations in double barrier magnetic tunnel junctions with asymmetric voltage behavior
Artur Useinov, Jurgen Kosel and Aurelien Manchon m, King Abdullah University of Science and Technology, Saudi Arabia

POSTER PRESENTATION**July 9 (Mon)**

- PJ07 Spin-current manipulation by domain wall motion in the non-local spin valve
Ryoko Sugano¹, Masahiko Ichimura¹, Saburo Takahashi² and Sadamichi Maekawa³, ¹Central Research Laboratory, Hitachi, Ltd., Japan; ²Institute for Materials Research, Tohoku University and CREST-JST, Japan; ³Advanced Science Research Center, Japan Atomic Energy Agency and CREST-JST, Japan
- PJ08 The study of microwave assisted magnetization reversal via spin pumping
Sankha Subhra Mukherjee, Siddharth Rao, Praveen Deorani, Jae Hyun Kwon, Charanjit Singh Bhatia and Hyunsoo Yang*, ECE, National University of Singapore, Singapore
- PJ09 Contributions of domain walls on large magnetoresistance effect in ultrathin TbFeCo wires
Bang Do and Hiroyuki Awano, Toyota Technological Institute, Japan
- PJ10 First-principles study of conductivity tensor in transition metals and alloys
Yohei Kota* and Akimasa Sakuma, Department of Applied Physics, Tohoku University, Japan
- PJ11 Magnetoresistance of CoFe/Pt nano-contacts
Muftah Al-mahdawi* and Masashi Hashi, Department of Electronic Engineering, Tohoku University, Japan
- PJ12 Inversion of magnetoresistance in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3/\text{Nb}$ -doped $\text{SrTiO}_3/\text{CoFe}$ junctions
Kenji Ueda*, Katsunori Tozawa, Keita Sakuma, Naoto Fukatani, Tetsuya Miyawaki and Hidefumi Asano, Graduate school of engineering, Nagoya University, Japan
- PJ13 Spin transfer torques in antiferromagnets
Hamed Ben Mohamed Saidaoui¹, Aurelien Manchon^{2*} and Xavier Waintal³, ¹Physical Science and Engineering, King Abdullah University of Science And Technology KAUST, Saudi Arabia; ²Physical Science and Engineering, King Abdullah University of Science And Technology KAUST, Saudi Arabia; ³Departement de Physique, SPSMS-INAC-CEA, France
- PJ14 Domain wall configuration and magneto-transport properties in dual spin-valve with nanoconstriction
Byong Sun Chun¹, Chan Yong Hwang¹, Han Chun Wu², Mohamed Abid³, Su Jung Noh⁴ and Young Keun Kim⁴, ¹Korea Research Institute of Standards and Science, Korea; ²Trinity College Dublin, Ireland; ³Ecole Polytechnique Federale de Lausanne/IPMC, Switzerland; ⁴Korea University, Korea
- PJ15 Giant magnetocaloric effect of $\text{Mn}_{0.91}\text{Ca}_{0.09}\text{As}$ thin film on Al_2O_3 (0001)
Duong Anh Tuan¹, Cho Sunglae^{1*}, Dang Duc Dung², Shin Yooleemi¹ and Jeon Seung Mok¹, ¹Physics, University of Ulsan, Korea; ²Physics, Depart of General Physics, School of Engineering Physics Hanoi University of Science and Technology, Viet Nam
- PJ16 Anomalous Hall effect of [Amorphous CoSiB/Pt] multilayer films
Hana Lee, Insung Park, Hyungjun Kim, Sungyong Kim, Youngkwang Kim, Hwayong Noh and Taewan Kim*, Sejong university, Korea
- PJ17 Spin transport phenomena through MgO/CuPc hybrid barrier in magnetic tunnel junctions
Yu Jeong Bae¹, Nyun Jong Lee¹, Tae Hee Kim^{1*}, Hyunduck Cho², Changhee Lee², Luke Fleet³, Atsufumi Hirohata³, Yeong-ah Soh⁴ and Gabriel Aepli⁴, ¹Physics, EWHA Womans University, Korea; ²School of Electrical Engineering and Computer Science, Seoul National University, Korea; ³Electronics, The University of York, United Kingdom; ⁴London Centre for Nanotechnology, United Kingdom
- PJ18 Theoretical approach to spin-current absorption at an interface
Kazuhiro Tsutsui¹, Kazuhiro Hosono² and Takehito Yokoyama^{1*}, ¹Dept. of Physics, Tokyo Institute of Technology, Japan; ²Dept. of Physics, Tokyo Metropolitan University, Japan
- PJ19 Magneto-transport properties of Al_2O_3 -doped Mn-Zn ferrites
Hyo-jin Kim and Sang-im Yoo*, Department of Materials Science and Engineering, Seoul National University, Korea

POSTER PRESENTATION**July 9 (Mon)**

- PJ20 Current induced fluctuation of switching fields in Co/Pd nanowires**
Mahdi Jamali, Xuepeng Qiu, Kulothungasagar Narayananpillai and Hyunsoo Yang*, *Electrical and Computer Engineering, National University of Singapore, Singapore*
- PJ21 Role of structural inversion asymmetry on current-induced effective field in perpendicular magnetized trilayers**
Xuepeng Qiu, Kulothungasagar Narayananpillai and Hyunsoo Yang*, *Electrical and Computer Engineering, National University of Singapore, Singapore*
- PJ22 Characterization of mechanically milled Cu-Co powder by 3D-FIB and atom probe tomography : effect of oxidation on the magnetoresistance**
Julien Bran, Rodrigue Larde, Malick Jean and Jean-marie Le Breton*, *Groupe de Physique des Materiaux - UMR 6634, CNRS - Universite de Rouen, France*
- PJ23 Effect of pressure on magnetotransport properties in Fe/MgO granular films**
A. Garcia - Garcia¹, J. A. Pardo², P. A. Algarabel^{1*}, Z. Arnold³, J. Kamarad³ and M. R. Ibarra², ¹ICMA, Universidad de Zaragoza-CSIC, 50009 Zaragoza, Spain; ²INA, Universidad de Zaragoza, 50018 Zaragoza, Spain; ³Institute of Physics AS CR, 162 53 Praha 6, Czech Republic
- PJ24 Measurement of anomalous nernst effect in [CoSiB/Pt] multilayer films**
Ozgur Keleksi¹, Ha Na Lee², K. J. Min², H. M. Waseem Khalil¹, Tae Wan Kim² and Hwayong Noh^{1*}, ¹Physics Department and Graphene Research Institute, Sejong University, Korea; ²Department of Advanced Materials Engineering, Sejong University, Korea
- PJ25 GMR effect in Co-Cu microwires**
Valentina Zhukova^{1*}, Rastislav Varga², Carlos Garcia³, Juanjo Del Val¹, Mihail Ipatov¹ and Arcady Zhukov⁴, ¹Dpto. de Fisica de Materiales, UPV/EHU, Spain; ²Inst. Phys., Fac.Sci., UPJS, Slovak; ³Dept Phys, Bogazici Univ, Turkey; ⁴Dpto. de Fisica de Materiales, UPV/EHU San Sebastian and IKERBASQUE, Basque Foundation for Science, Bilbao, Spain
- PJ26 Domain wall quantum interferometer**
John Eves, N. Grisewood and H. B. Braun, *School of Physics, UCD, Ireland*
- PJ27 Synthesis and magnetic properties of trilayer NiFe/Bi/NiFe films**
Konstantin Patrin¹, Viktor Yakovchuk¹, Gennady Patrin² and Stanislav Yarikov², ¹Institute of Physics of Siberian Branch of Russian Academy of Sciences, Russia; ²Siberian Federal University, Russia
- PJ28 A study on the pulesd laser deposited metallic spin valve structures**
Sayak Ghoshal^{1*} and P. S. Anil Kumar², ¹Physics, Indian Institute of Science, India; ²Indian Institute of Science, India
- PJ29 Spin torque in a finite two-dimensional ferromagnet with Rashba interaction**
Christian Ortiz, Xuhui Wang and Aurelien Manchon*, *Physical Science and Engineering Division, King Abdullah University of Science and Technology, Saudi Arabia*
- PJ30 Spin transport of Py/Au/Py spin valves with different Au channel widths**
Jang Hae Ku¹, Joonyeon Chang^{1*}, Hyun Cheol Koo¹, Jonghwa Eom², Suk-hee Han¹ and Gyutae Kim³, ¹Spin Convergence Research Center, Korea Institute of Science and Technology (KIST), Korea; ²Department of Physics, Sejong University, Korea; ³Department of Electrical Engineering, Korea University, Korea
- PJ31 The effect of magnetic impurities in magnetic tunnel junction**
Sungjung Joo¹, K.Y. Jung¹, B.C. Lee², Tae-suk Kim³, K.h. Shin⁴, Mung-hwa Jung⁵, Jinki Hong¹ and K. Rhie^{1*}, ¹Department of Display and Semiconductor Physics, Korea University, Korea; ²Department of Physics, Inha University, Korea; ³Department of Physics, Chonnam national University, Korea; ⁴Spintronics Device Research Center, Korea Institue of Science and Technology, Korea; ⁵Department of Physics, Sogang University, Korea

POSTER PRESENTATION**July 9 (Mon)**

- PJ32 Effect of cobalt layer thickness on the magnetic and magnetoresistance properties of asymmetrical Co/Cu multilayers**
Srikrishna Pandey, Pavel Nikolaev and Sivaram Areppalli*, *Department of Energy Science, Sungkyunkwan University, Korea*
- PJ33 Current-induced motion of a transverse magnetic domain wall in the presence of spin Hall effect**
Soo-man Seo¹, Kyung-when Kim², Jisu Ryu², Hyun-woo Lee² and Kyung-jin Lee^{1*}, ¹Materials Science and Engineering, Korea university, Korea; ²Physics, Pohang University of Science and Technology, Korea
- PJ34 Universal spin-hall effect in metallic thin films**
Xuhui Wang¹, Jiang Xiao², Aurelien Manchon¹, and Sadamichi Maekawa^{3,4}, ¹King Abdullah University of Science and Technology (KAUST), Physical Science and Engineering Division, Saudi Arabia; ²Department of Physics and State Key Laboratory of Surface Physics, Fudan University, China; ³Advanced Science Research Center, Japan Atomic Energy Agency, Tokai 319-1195, Japan; ⁴CREST, Japan Science and Technology Agency, Tokyo 102-0075, Japan
- PK:** **Perpendicular magnetic anisotropy and strong anisotropy**
- July 9 (Mon), 13:30~15:30, Exhibition Hall 1 (1F)**
Chairperson: T. Shima (Tohoku Gakuin University, Japan)
- PK01 Controlling magnetic isolation and moment reversal of FePt (001) films by Cu capping nanoislands**
D. H. Wei^{1*}, C. H. Chao¹ and Y. D. Yao², ¹Institute of Manufacturing Technology and Graduate Institute of Mechanical AND Electrical Engineerin, National Taipei University of Technology, Taiwan; ²Institute of Applied Science and Engineering, Fu Jen University, Taiwan
- PK02 Perpendicular magnetic anisotropy for annealed Co/Ir(111) ultrathin films**
Wen-yuan Chan, Du-cheng Tsai, Cheng-hsun Chang and Jyh-shen Tsay*, *National Taiwan Normal University, Taiwan*
- PK03 Anomalous easy-plane magnetocrystalline anisotropy of compressive strained (La,Ba)MnO₃ films**
Hong Zhu*, Jinzheng Tian, Lei Yang, Qingyong Duanmu, Lin Hao and Xiaoping Wang, *Department of Physics, University of Science and Technologh of China, China*
- PK04 Magnetic reversal of Co/Pt multilayer depending on Co thickness and annealing temperature**
Seungha Yoon, Seungkyo Lee, Joonhyun Kwon, Junghyon Lee and B. K. Cho*, *Materials Science and Engineering, Gwangju Institute of Science and Technology, Korea*
- PK05 Annealing effect on the microstructures and magnetic properties of [Fe/Pt]16 multilayers on MgO (001) substrate**
Aimei Zhang¹, Weihua Zhu² and Xiaoshan Wu³, ¹College of Science, Hohai University, China; ²College of Science, Hohai University, China; ³Physics, Nanjing University, China
- PK06 Preparation and magnetic studies of room-temperature sputtered [Co/Pt] multilayer films on glass substrates with perpendicular magnetic anisotropy ,**
Chiuan-fa Huang¹, Hsian-yuan Wu¹, An-cheng Sun^{1*}, Fu-te Yuan², Jen-hwa Hsu², S. N. Hsiao³ and H. Y. Lee³ ¹Department of Chemical Engineering & Materials Science, Yuan Ze University, Taiwan; ²Department of Physics, National Taiwan University, Taiwan; ³National Synchrotron Radiation Research Center (NSRRC), Taiwan
- PK07 Magnetic anisotropy in FeCo thin films**
Xiaoxi Liu*, Shinsaku Isomura and Akimitsu Morisako, *Department of Information Engineering, Shinshu University, Japan*
- PK08 Magnetic domain wall energy of Co/Ni superlattice with perpendicular magnetic anisotropy**
Kentaro Toyoki, Yu Shiratsuchi* and Ryoichi Nakatani, *Osaka University, Japan*

POSTER PRESENTATION**July 9 (Mon)****PK09 Anisotropic Magnetoresistance of Co/Ni multilayers**

Chih-yung Chen¹, James C Eckert¹, Natalia Fear¹, Sheena K. K. Patel¹, Richard Sayanagi¹, Patricia D Sparks¹, E Shipton² and Eric E Fullerton², ¹*Harvey Mudd College, USA;* ²*University of California, San Diego, USA*

PK10 Interface perpendicular magnetic anisotropy in thick amorphous CoSiB film by Pt layer

Insung Park, Hana Lee, Hyung Jun Kim, Sung Yong Kim, Young Kwang Kim and Taewan Kim*, *Department of Advanced Materials Engineering, Sejong Univ., Korea*

PK11 Perpendicular magnetic anisotropy and superparamagnetism in Ta/CoFeB/MgO structures

C. C. Tsai¹, H. M. Chen², Chih-Wei Cheng², C. H. Shiue², M. C. Tsai², J. P. Singh², C. W. Su³ and G. Chern^{2*}, ¹*Department of Engineering and Management of Advanced Technology, Chang Jung Christian University, Tainan 71101, Taiwan;* ²*Department of Physics, National Chung Cheng University, ChiaYi 62102, Taiwan;* ³*Department of Electrophysics, National Chiayi University, ChiaYi, 60004, Taiwan*

PK12 Observation of symmetry of wavefunction in interface controlled Co/Pd multilayer using magnetic compton profile

Kosuke Suzuki^{1*}, Naoto Go¹, Shun Emoto¹, Masayoshi Itou², Yoshiharu Sakurai² and Hiroshi Sakurai¹, ¹*Graduate School of Engineering, Gunma University, Japan;* ²*JASRI/SPRING-8, Japan*

PK13 Tunable spin configuration in [Co/Ni] adjoined NiFe exchange spring structures

Sunjae Chung^{1*}, S. M. Mohseni¹, T. N. Anh Nguyen¹, N. Benatmane¹, R. K. Dumas² and Johan Akerman², ¹*Materials Physics, School of ICT, KTH - Royal Institute of Technology, Electrum 229, 164 40, Kista, Sweden;* ²*Department of Physics, University of Gothenburg, 412 96 Gothenburg, Sweden*

PK14 Large perpendicular magnetic anisotropy in the MgO/CoFeB/Ta with thick Ta layer

Tao Zhu, *Institute of Physics, Chinese Academy of Sciences, China*

PK15 Strain induced overlayer effect on perpendicular magnetic anisotropy in Ta/CoFeB/MgO structures

C. W. Su¹, H. M. Chen², Chih-Wei Cheng², C.H. Shiue², J. P. Singh², C. C. Tsai³ and G. Chern^{2*}, ¹*Department of Electrophysics, National Chiayi University, Chiayi, 60004, Taiwan;* ²*Department of Physics, National Chung Cheng University, Chiayi 62102, Taiwan;* ³*Department of Engineering and Management of Advanced Technology, Chang Jung Christian University, Tainan 71101, Taiwan*

PK16 (Withdrawn) Ultrathin Co/Pt films with high thermal stability and large effective magnetic moment

Prasanta Chowdhury*, Prabhanjan Dilip Kulkarni, Murali Krishnan and Harish C Barshilia, *Surface Engineering Division, National Aerospace Laboratories (CSIR), India*

PK17 Magnetic characteristics of amorphous [CoSiB/Pt]n multilayers

Woosuk Yoo¹, Kyujoon Lee¹, Myung-hwa Jung^{1*}, Insung Park², Taewan Kim², E.h.m. Van Der Heijden³ and H.j.m. Swagten³, ¹*Dept of Physic, Sogang University Seoul. Korea;* ²*Dept of Physic, Sejong University Seoul. Korea;* ³*Department of Applied Physics, Eindhoven University of Technology, Netherlands*

PK18 Effects of phase distribution and grain size on the effective anisotropy and coercivity of nanocomposite PtCo permanent alloy

Tao Liu¹, Pei Zhao², Zhaohui Guo¹, Wei Li¹, Wei Sun¹ and Jingdai Wang¹, ¹*Division of Functional Materials, Central Iron & Steel Research Institute, China;* ²*Central Iron & Steel Research Institute, China*

PK19 Perpendicular magnetic anisotropy and metal layer effect in MgO/CoFeB/cap (cap = Ta, Ru, and Nb)

Chih-Wei Cheng, Tsung-I Cheng and G. Chern*, *Department of Physics, National Chung Cheng University, Chiayi 62102, Taiwan*

POSTER PRESENTATION**July 9 (Mon)****PK20 Dependence of perpendicular magnetic anisotropy of CoFeB thin films on thickness of MgO overlayer**

Duong Duc Lam¹, Frederic Bonell¹, Shinji Miwa¹, Yoichi Shiota¹, Kay Yakushiji², Hitoshi Kubota², Takayuki Nozaki², Akio Fukushima², Shinji Yuasa² and Yoshishige Suzuki^{1*}, ¹*Graduate School of Engineering Science, Osaka University, Toyonaka, Osaka 560-8531, Japan;* ²*National Institute of Advanced Industrial Science and Technology (AIST), Spintronics Research Center, Japan*

PK21 The study of MgO based surface anisotropy of CoFeB layer

Dongseok Kim¹, Kyeol Jung¹, Sungjung Joo¹, Youngjae Jang¹, Byungchan Lee², Jinki Hong¹ and Kungwon Rhie^{1*}, ¹*Display and Semiconductor Physics, Korea University, Korea;* ²*Department of Physics, Inha University, Korea*

PL: Surface and interface effects including exchange bias

July 9 (Mon), 13:30-15:30, Exhibition Hall 1 (1F)

Chairperson: Y. Shiratsuchi (Osaka University, Japan)

PL01 BiFeO₃ thickness dependence of exchange bias in polycrystalline BiFeO₃FeNi bilayers

Xiaobo Xue¹, Xueyong Yuan², Wenbing Rui¹, Biao You¹, Qingyu Xu² and Jun Du^{1*}, ¹*National Laboratory of Solid State Microstructures and Department of Physics, Nanjing University, China;* ²*Department of Physics, Southeast University, China*

PL02 Temperature-dependent magnetic anisotropies in epitaxial Fe/CoO/MgO(001) system studied by the planar Hall effect

J. Zhu¹, J. Li¹, W.n. Cao², J. Zhu¹ and Yizheng Wu^{2*}, ¹*Physics department, Fudan university, China;* ²*physics department, Fudan university, China*

PL03 Structural changes and magnetic properties of ultrathin Fe/Pt(111) films influenced by oxygen exposure

Jyh-shen Tsay^{1*}, Hau-chun Jhang¹, Ying-chen Lee¹, Wei-hsiang Chen¹, Yao-jung Chen² and Huei-ying Ho³, ¹*National Taiwan Normal University, Taiwan;* ²*Taipei College of Maritime Technology, Taiwan;* ³*National Taipei University of Education, Taiwan*

PL04 Initial growth of bcc Co films on Au(001) studied by STM/BH imaging

T. Kawagoe*, E. Wakabayashi, Y. Murasawa and T. Sakata, *Osaka Kyoiku University, Japan*

PL05 Magnetic field induced "switching" of the nanodomain state of ferromagnet - antiferromagnet frustrated system

Alexander I Morosov and Alexander S Sigov, *Electronics Department, MSTU MIREA, Russia*

PL06 Stable structural and electronic properties of adsorption Ti on the clean Ti/Si(111) surface

Haruki Kato^{1*}, Liang Li¹, Shinya Haraguchi¹, Junpei Goto¹, Masahito Tsujikawa² and Tatsuki Oda³, ¹*Graduate School of Natural Science and Technology, Kanazawa University, Japan;* ²*Center for Spintronics Integrated Systems, Tohoku University, Japan;* ³*Institute of Science and Engineering, Kanazawa University, Japan*

PL07 Exchange bias effect in Ni(Zn)O film

R. Ray^{1*}, S. Biswas¹, S. Das², S. Majumdar² and S. Giri², ¹*Department of Physics, Jadavpur University, India;* ²*Solid State Physics, Indian Association for the Cultivation of Science, India*

PL08 Electronic properties of transition metal oxides interface between GdTiO₃SrTiO₃

Sungbin Lee^{1*} and Leon Balents², ¹*University of California, Santa Barbara, USA;* ²*Kavli Institute for Theoretical Physics, University of California, Santa Barbara, USA*

PL09 Parallel ferromagnetic resonance and spin wave excitation in exchange-biased NiFe/IrMn bilayers

Marcos Sousa^{1*}, Fernando Pelegrini¹, Justiniano Marcatoma², Willian Alayo² and Elisa Baggio-saitovitch², ¹*Universidade Federal de Goias - UFG, Brazil;* ²*Centro Brasileiro de Pesquisas Fisicas, Brazil*

POSTER PRESENTATION**July 9 (Mon)**

- PL10 Morphological consideration for post-annealed Cr₂O₃ surface and exchange bias in bilayer system**
Tomohiro Nozaki*, Naoki Shimomura, Takuya Ashida, Yuji Sato and Masashi Sahashi, *Graduate school of Electronic Engineering, Tohoku University, Japan*
- PL11 Magnetic properties of [NiFe/NiFeCuMo/NiFe]/FeMn-multilayers depending on a thickness of NiFeCuMo layer**
Jong-gu Choi¹, Kwang-jun Park², Jang-rho Rhee³ and Sangji-suk Lee^{2*}, ¹*Eastern-Western Biomedical Engineering, Sangji University, Korea;* ²*Oriental Biomedical Engineering, Sangji University, Korea;* ³*Physics, Sookmyung Women' University, Korea*
- PL12 Structural and magnetic properties of antiferromagnetic Heusler Ru_xMnGe epitaxial thin films**
Naoto Fukatani*, Hirohito Fujita, Tetsuya Miyawaki, Kenji Ueda and Hidefumi Asano, *Nagoya University, Japan*
- PL13 Exchange-spring phenomenon of ultrathin Fe/CoPt bilayer**
Wei-hsiang Chen¹, Hsing-hsuan Wu¹, Huei-ying Ho² and Jyh-shen Tsay^{1*}, ¹*Physics, National Taiwan Normal University, Taiwan;* ²*Physics, Department of Science Education, National Taipei University of Education, Taiwan*
- PL14 Neutron magnetic scattering study in manganite thin film system**
H. Nakao^{1*}, H. Yamada², K. Iwasa³, J. Okamoto¹, Y. Yamasaki¹, Y. Murakami¹ and A. Sawa², ¹*Condensed Matter Research Center and Photon Factory, IMSS, KEK, Japan;* ²*Electronics and Photonics Research Institute, AIST, Japan;* ³*Department of Physics, Tohoku University, Japan*
- PL15 Direction and temperature dependences of exchange bias and coercivity of NiFe/Cr_{2(1-x)}Fe_{2x}O₃(x= 0.25, 0.4) bilayers**
Sanghoon Ki, Byeong-geon Kim and Joonghoe Dho*, *Kyungpook National University, Korea*
- PL16 Structure and magnetic properties of epitaxial Fe/MgO/Si (001) heterostructures**
Jeong Hong Jo¹, Kyung-ho Kim², Yoon Jae Nam³, Hyung-jun Kim², Joonyeon Chang² and Sang Ho Lim^{1*}, ¹*Department of Materials Science and Engineering, Korea University, Seoul 136-713, Korea;* ²*Spin Convergence Research Center, Korea Institute of Science and Technology, Seoul 136-791, Korea;* ³*Department of Nano Semiconductor Engineering, Korea University, Seoul 136-713, Korea*
- PL17 Uncompensated magnetic moment around Mn₃Ir / Fe-Co-Ni bilayer interface**
Yohei Kota*, Hirokazu Takahashi, Masakiyo Tsunoda and Akimasa Sakuma, *Graduate School of Engineering, Tohoku University, Japan*
- PL18 Unusual exchange bias effects in NiFe/Mn thin films induced via ion-beam bombardment**
Chi-hsin Liu¹, Chin Shueh¹, Yi-wen Ting¹, Wen-chen Chen², Te-ho Wu², Johan Van Lierop³ and Ko-wei Lin^{1*}, ¹*Dept of Materials Science and Engineering, National Chung Hsing University, Taiwan;* ²*Graduate School of Material Science, National Yunlin University of Science and Technology, Taiwan;* ³*Department of Physics and Astronomy, University of Manitoba, Canada*
- PL19 Exchange bias effect in BiFeO₃ thin films**
Kil-dong Sung and Jonghoon Jung*, *Physics, Inha University, Korea*
- PL20 Experiment evidence to the existence of interaction between antiferromagnetic domains in IrMn/Pt/Co/Pt multilayers**
X. J. Bai¹, Z. Shi², S. M. Zhou^{2*}, X. R. Zhao¹ and C. D. Cao¹, ¹*Key Laboratory of Space Applied Physics and Chemistry, Northwestern Polytechnical University, Xi'an, China;* ²*Department of Physics, Tongji University, Shanghai 200092, China*

POSTER PRESENTATION**July 9 (Mon)**

- PL21 Nanoscale investigation of the Cr/Fe(001) interface grown by oxygen assisted epitaxy**
Alberto Brambilla^{1*}, Andrea Picone¹, Guido Fratesi², Alberto Calloni¹, Michele Riva¹, Gianlorenzo Bussetti¹, Alberto Ferrari¹, Lamberto Duo¹, Marco Finazzi¹, Mario Italo Trioni³ and Franco Cicacci¹, ¹*Dipartimento di Fisica, Politecnico di Milano, Piazza Leonardo Da Vinci 32, 20133 Milano, Italy;* ²*Dipartimento di Scienza dei Materiali, Universita di Milano-Bicocca, Via Cozzi 53, 20125 Milano, Italy;* ³*CNR, National Research Council of Italy, ISTM, Via Golgi 19, 20133 Milano, Italy*
- PM: Soft magnetic materials I**
July 9 (Mon), 13:30~15:30, Exhibition Hall 1 (1F)
Chairperson: Phan Manh-Huong (University of South Florida, USA)
- PM01 Correlation of soft magnetic properties with free volume and medium range ordering in metallic glasses**
Amit P Srivastava^{1*}, D Srivastava¹, P K Pujari¹, K G Suresh² and G K Dey¹, ¹*Bhabha Atomic Research Centre, Mumbai, India;* ²*Indian Institute of Technology Bombay, Mumbai, India*
- PM02 Microscopic magnetic hysteresis measurement of amorphous Tb-TM (TM=Fe and Co) thin films by magnetic Compton scattering**
Akane Agui^{1*}, Tetsuya Unno², Sayaka Matsumoto², Kousuke Suzuki² and Hiroshi Sakurai², ¹*Japan Atomic Energy Agency, Japan;* ²*Dept. Production Sci & Technol., Gunma Univ., Japan*
- PM03 A significant reduction of hysteresis in MnFe(PSi) compounds**
O. Tegus^{1*}, Y. X. Geng¹ and J. H. Huang², ¹*Physics and Electronic Information College, Inner Mongolia Normal University, Hohhot 010022, China;* ²*Baotou Research Institute of Rare Earths, Baotou 014030, China*
- PM04 Temperature dependence of creep-induced anisotropy in nanocrystalline FeCuNbSiB alloys**
Giselher Herzer*, Mie Marsilius and Christian Polak, *R&D Rapid Solidification Technology, Vacuumschmelze GmbH & Co. KG, Germany*
- PM05 Magnetocaloric properties of Ni-Co-Mn-In ribbon**
M. U. Gutowska^{1*}, J. Wieckowski¹, A. Szewczyk¹, W. Maziarz², N. Nedelko¹, S. Lewinska - Waniewska¹, M. Kowalczyk³ and A. Kolano - Burian⁴, ¹*Institute of Physics, Polish Academy of Sciences, Warsaw, Poland;* ²*Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Cracow, Poland;* ³*Faculty of Materials Engineering, Warsaw University of Technology, Warsaw, Poland;* ⁴*Institute of Non-Ferrous Metals, Gliwice, Poland*
- PM06 Influence of bismuth substitution on the magnetocaloric properties of Gd₅Si₂Ge₂ compound**
Corneliu Bazil Cizmas^{1*}, Rim Guetari², Lotfi Bessais³, Najeh Thabet Mliki² and Sorin Adam¹, ¹*Department of Electrical Engineering and Applied Physics, Transilvania University of Brasov, Bd. Eroilor 29, 500036 Brasov, Romania;* ²*LMOP, Department of Physics, Faculty of Sciences of Tunis, Tunis El Manar University, 2092 El Manar, Tunisia;* ³*ICMPE, UMR7182 CNRS, Universite Paris-Est Creteil, 2/8 rue Henri Dunant, B.P. 28 F-94320 Thiais, France*
- PM07 Ion incident energy effects on the giant magnetoimpedance enhancement**
Hoon Song and D. G. Park*, *Korea Atomic Energy Research Institute, Korea*
- PM08 Investigation of electrodeposited FeNi film prepared from tartaric acid based bath**
Takaya Shimokawa*, Takeshi Yanai, Ken-ichiro Takahashi, Masaki Nakano and Hirotoshi Fukunaga, *Nagasaki University, Japan*
- PM09 Electrodeposited Fe-Co film prepared from citric acid-based plating bath**
Takeshi Yanai*, Haruka Uto, Takaya Shimokawa, Ken-ichiro Takahashi, Masaki Nakano and Hirotoshi Fukunaga *Nagasaki University, Japan*

POSTER PRESENTATION**July 9 (Mon)**

- PM10 Magnetic and magnetocaloric properties of polycrystalline Fe₂P under hydrostatic pressure**
 Luana Caron^{1*}, Viktor Hoglin², Yvonne Andersson², Per Nordblad³ and Ekkes Bruck⁴, ¹Fundamental Aspects of Materials and Energy, Faculty of Applied Sciences, TU Delft, Mekelweg 15, 2629 JB Delft, Netherlands; ²Department of Materials Chemistry, Uppsala University, Box 538, 751 21 Uppsala, Sweden; ³Department of Engineering Sciences, Uppsala University, Box 534, 751 21 Uppsala, Sweden; ⁴Fundamental Aspects of Materials and Energy, TU Delft, Mekelweg 15, 2629 JB Delft, Netherlands
- PM11 Influence of Er doping on magnetic and magnetocaloric properties of (NiCo)₂MnGa**
 Jirí Kaštíl^{1*}, Jirí Kamarád² and Zdeněk Arnold², ¹Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic; ²Institute of Physics ASCR, Prague 8, Czech Republic., Czech Republic
- PM12 Structural and magnetic properties of FeMnAl nanocrystalline alloys**
 Kontan Tarigan, Young-yeal Song and Seong-cho Yu*, BK21 Physics Program and Department of Physics, Chungbuk National University, Cheongju 361-763, Korea
- PM13 Magnetocaloric effect in Fe doped La_{0.67}Ba_{0.33}MnO₃ system**
 Hirofumi Kawanaka^{1*}, Hiroshi Bando¹ and Yoshikazu Nishihara², ¹Advanced Industrial Science and Technology, Japan; ²Ibaraki Univ., Japan
- PM14 Study of magnetic transition and magnetic entropy changes of La_{0.5}Sr_{0.3}MnO₃ and La_{0.7}Ca_{0.1}Sr_{0.2}MnO₃**
 Anwar Mohammad Shafique, Shalendra Kumar, Faheem Ahmed, G. W. Kim and Bon Heun Koo*, School of Nano & Advanced Materials Engineering, Changwon national university, Korea
- PM15 Perpendicular magnetic anisotropy of amorphous ferromagnetic CoSiB multilayer**
 Sol Jung¹, H. I. Yim^{1*}, Ahri Kim² and Sumin Kim², ¹Physics, Sookmyung Women's University, Korea; ²Nano-Physics, Sookmyung Women's University, Korea
- PM16 Thickness dependence of magnetic induction in inhibitor-free 3% silicon steels**
 Sang-beom Kim^{1*}, Joon-young Soh¹, Sang-yun Lee¹, Heejong Jung² and Jongryoul Kim², ¹Korea Electric Power Corporation Research Institute, Korea; ²Department of Metallurgy and Materials Science, Hanyang University, Korea
- PM17 Effect of M (= Ge, Y, Hf) addition on soft magnetic properties of Fe-B-Si-M metallic glass alloys**
 Juho Lee¹, Hwijun Kim¹, Jungchan Bae¹ and Dohyang Kim^{2*}, ¹Korea Institute of Industrial Technology, Korea; ²Center for noncrystalline Materials, Yonsei University, Korea
- PM18 Effects of film composition and substrate temperature on the structure and magnetic properties of FeCoB alloy films formed on MgO single-crystal substrates**
 Yugo Asai*, Mitsuru Ohtake, Tetsuroh Kawai and Masaaki Futamoto, Chuo University, Japan
- PM19 Arrangement of different magnetic alloy sheets for effective magnetic shielding**
 Sang-yun Lee, Yun-seog Lim, Ho-seong Ahn, Dong-il Lee and Sang-beom Kim*, Korea Electric Power Corporation Research Institute, Korea
- PM20 Fabrication of particulated Fe-Mg thin films by selective oxidation and their magnetic properties**
 Pyungwoo Jang*, College of Science and Engineering, Cheongju university, Korea
- PM21 Optimum spacing of magnetic alloy strips in open-type magnetic shielding**
 Yun-seog Lim, Sang-yun Lee, Ho-seong Ahn, Dong-il Lee and Sang-beom Kim*, Korea Electric Power Corporation Research Institute, Korea
- PM22 Magnetocaloric effect in Ni_{2.27}Mn_{0.73}Ga Heusler alloy**
 Mikhail Drobosyuk, Vasiliy Buchelnikov, Sergey Taskaev and Rafael Fayzullin, Chelyabinsk state university, Russia
- PM23 Soft magnetic properties of Fe-6.5wt.%Si alloy sheets fabricated by powder hot-rolling**
 Hunju Lee¹, Hwijun Kim² and Mooyoung Huh^{1*}, ¹Department of Materials Science and Engineering, Korea University, Korea; ²Korea Institute of Industrial Technology, Korea

POSTER PRESENTATION**July 9 (Mon)**

- PM24 Structure and magnetic properties of nano/micro-sized Mn-Al alloy powders produced by plasma arc-discharge and gas atomization**
 Junggoo Lee^{1*}, Younkyoung Baek¹, Hwijun Kim² and Chuljin Choi¹, ¹Powder & Ceramics Division, Korea Institute of Materials Science, Korea; ²Eco-Materials and Processing Division, Korea Institute of Industrial Technology, Korea
- PM25 (Withdrawn) Ultra high speed pm type synchronous motor-generator with amorphous core for micro turbine**
 Do-kwan Hong*, Yeon-ho Jeong, Dae-suk Joo, Byung-chul Woo and Dae-hyun Koo, Electric Motor Research Center, Korea Electrotechnology Research Institute, Korea
- PM26 Temperature dependence of magnetic domains in grain-oriented silicon steel**
 H. L. Park¹, R. Schaefer², O. Y. Kwon³ and Y. H. Jeong^{1*}, ¹Physics, POSTECH, Korea; ²IFW Dresden, Institute for Metallic Materials, Germany; ³Pohang Iron and Steel Company, Korea
- PM27 A tri-layer stress impedance sensor using amorphous magnetostrictive thin film**
 Bodong Li*, Ahmed Alfaadhel and Jurgen Kosel, KAUST, Saudi Arabia
- PM28 Magnetoimpedance(GMI) effect in the NiFe shell/Cu core wires fabricated by electrodeposition**
 Dong Young Kim, Sung Jae Jeon, Jung Dong Kim and Seok Soo Yoon*, Physics, Andong National University, Korea
- PN:** **Dilutedmagnetic semiconductor/nano-composite I**
July 9 (Mon), 13:30-15:30, Exhibition Hall 1 (1F)
 Chairpersons: Masaki Imamura (Fukuoka Institute of Technology, Japan)
 Beongki Cho (GIST, Korea)
- PN01 SQUID, XRD and Raman studies of Mn implanted gallium nitride at elevated temperature**
 N. S. Pradhan¹, Sheshmani K. Dubey², A. D. Yadav¹, B. K. Panigrahi³, K. G. M. Nair⁴ and M. Roy⁵, ¹Department of Physics, University of Mumbai, Mumbai, India; ²Department of Physics, University of Mumbai, India; ³Materials Science Division, Indira Gandhi Centre for Atomic Research, Kalpakkam-603 102, India; ⁴Materials Science Division, Indira Gandhi Centre for Atomic Research, Kalpakkam-603 102, India; ⁵Chemistry Devision, Bhabha Atomic Research Center, Mumbai - 400 005, India
- PN02 Oxidation of monovacancies in graphene by oxygen**
 Thaneshwor Prashad Kaloni and U. Schwingenschlögl, King Abdullah University of Science and Technology, Saudi Arabia
- PN03 Structural , compositional and magnetic study of bulk Fe doped ZnO system and impurity phase formation**
 Shumaila Karamat^{1*}, Rajdeep Singh Rawat², Paul Lee³, Tan Tuck Lee Augustine⁴ and Muhammad Ghaffari⁵, ¹Physics, NIE, Nanyang technological University, Singapore ²COMSATS Islamabad, Pakistan; ³NSSE-NIE, Nanyang Technological University Singapore, Singapore; ⁴Physics, Nanyang Technological University, Singapore, Singapore; ⁵EEE, Nanyang Technological University, Singapore, Singapore
- PN04 Enhanced magnetization and spin injection in Co/ZnO films by Al doping**
 Zhiyong Quan, Wei Liu and Xiaohong Xu*, School of Chemistry and Materials Science, Shanxi normal university, China
- PN05 Structure, magnetic, and transport properties in Cu_{1-x}Mn_xO compounds**
 Jinzhu Cai, Li Li, Bin Lv, Shen Wang, Wenqin Zou, Fengming Zhang* and Xiaoshan Wu, Physics, Nanjing University, China

POSTER PRESENTATION**July 9 (Mon)**

- PN06** A probe into the structural, magnetic and dielectric properties of barium and lithium substituted pseudobrookites
Pushpinder Gupta Bhatia^{1*} and Radha Srinivasan², ¹Physics, Department of Physics, Guru Nanak college, Mumbai-37, India; ²Physics, Department of Physics, University of Mumbai, Mumbai-98, India
- PN07** Oxygen vacancy and magnetism of a room temperature ferromagnet Co-doped TiO₂
Ikuo Nakai^{1*}, Masashi Sasano¹, Yingjie Li², Ken Inui¹, Tomoya Korekawa¹, Hiroyuki Ishijima¹, Hisashi Katoh¹ and Makio Kurisu³, ¹Department of Electrical and Electronic Engineering, Graduate School of Engineering, Tottori University, Japan; ²Inner Mongolia Key Laboratory for Physics and Chemistry of Functional Materials, Inner Mongolia Normal University, China; ³Department of Physics, Graduate School of Science and Engineering, Ehime University, Japan
- PN08** Effect of annealing on the magnetic anisotropy of GaMnAs film with low Mn concentration
Hyehyeon Byeon¹, Yoonjung Gwon¹, Jaehyuk Won¹, Taehee Yoo¹, Sanghoon Lee^{1*}, X. Liu² and J. K. Furdyna², ¹Physics Department, Korea University, Korea; ²Physics Department, University of Notre Dame, USA
- PN09** Low field magnetization reversal behavior of ferromagnetic GaMnAs film
Yoonjung Gwon¹, Hyehyeon Byeon¹, Jaehyuk Won¹, Hakjoon Lee¹, Sanghoon Lee^{1*}, X. Liu² and J. K. Furdyna², ¹Physics Department, Korea University, Korea; ²Physics Department, University of Notre Dame, USA
- PN10** Half-metallic antiferromagnetism in the ordered Cr_{1-x}Ca_xSb alloy from first-principles calculations
Guoying Gao* and Kailun Yao, School of Physics, Huazhong University of Science and Technology, China
- PN11** Translation & rotation of diamagnetic material induced by a low field of a permanent magnet and terminal identification of a micron-sized particle
Keiji Hisayoshi and Chiaki Uyeda, Osaka university, Japan
- PN12** Magnetoresistance effect in electron-injected p-type silicon
Michael P. Delmo*, Eiji Shikoh, Teruya Shinjo and Masashi Shiraishi, Graduate School of Engineering Science, Osaka University, Japan
- PN13** First-principles investigation of the influence of adsorbed atom on the defect and impurity substitute graphene
Kengo Nakada¹ and Akira Ishii², ¹JST-CREST, Japan; ²Department of Applied Mathematics and Physics, Tottori University, Japan
- PN14** Room-temperature fabrication of highly transparent magnetic nanocomposite systems by aerosol deposition
Jae-hyuk Park* and Akedo Jun, National Institute of Advanced Industrial Science and Technology (AIST), Japan
- PN15** Effect of transition metal (Co, Ni and Cu) doping on lattice volume, band gap, morphology and saturation magnetization of ZnO nanostructures
Faheem Ahmed, Shalendra Kumar, Nishat Arshi, M S Anwar and Bon Heun Koo*, Changwon National University, Korea
- PN16** Functionalized graphene as a room-temperature ferromagnetic semiconductor
Jeongmin Hong^{1*}, Sandip Niyogi², Elena Belyarova², Mikhail E. Itkis², Palanisamy Ramesh², Claire Berger³, Walt A. Deheer⁴, Robert C. Haddon² and Sakhra Khizroev⁵, ¹Electrical and Computer Engineering, Florida International University, USA; ²Department of Chemistry, Department of Chemical Engineering, Center for Nano Scale Science and Eng, University of California-Riverside, USA; ³CNRS, Institut Neel, France; ⁴School of Physics, Georgia Institute of Technology, USA; ⁵Department of Electrical and Computer Engineering, Florida International University, USA

POSTER PRESENTATION**July 9 (Mon)**

- PN17** Tuning of the curie temperature by varying reduction potential in electrochemically prepared thin films of Prussian blue analogue based molecular magnets
Pramod Bhatt*, M. D. Mukadam and S. M. Yusuf, Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai-400085, India
- PN18** Evolution of multifunctional behavior in site specific cation substituted Na_{0.5}Bi_{0.45}Gd_{0.05}Tl_{0.95}Mn_{0.05}O₃ ceramics
T Karthik^{1,2} and Saket Asthana^{1*}, ¹Department of Materials Science & Engineering, Indian Institute of Technology, Hyderabad, India; ²Advanced Functional Materials Laboratory, Dept. of Physics, Indian Institute of Technology, Hyderabad, India
- PN19** Magnetic doping effect on physical properties of PbPdO₂
Kyujoon Lee, Seongmin Choo and Myung-hwa Jung*, Sogang University, Korea
- PN20** An experimental approach using EPR and XMCD to explore hydrogen mediated ferromagnetism
Seunghun Lee¹, Bun-su Kim¹, Yong Nam Choi², Naoki Ishimatsu³, Masahiro Sawada³, Won-kyung Kim¹, Ji Hun Park¹, Yong Chan Cho¹ and Se-young Jeong^{1*}, ¹Cogno-Mechatronics Engineering, Pusan National University, Korea; ²Korea Atomic Energy Research Institute, Korea; ³Hiroshima University, Japan
- PN21** A role of mobility in hydrogen mediated ferromagnetism of ZnCoO
Ji Hun Park¹, Seunghun Lee¹, Won-kyung Kim¹, Jong Moon Shin², Yong Chan Cho¹, Chae Ryong Cho², Hideomi Koinuma¹ and Se-young Jeong^{1*}, ¹Dept. of Cogno-Mecatronics Engineering, Pusan National University, Korea; ²Dept. of Nano Fusion Technology, Pusan National University, Korea
- PN22** Magnetic and magneto-optical properties of TiO₂:V semiconductor oxide films with various resistivity
Andrey F Orlov¹, Leonid A Balagurov¹, Ivan V Kulemanov¹, Elena A Petrova¹, Nikolai Perov^{2*}, Elena A Gan'shina², Leonid Yu Fetisov², Anna S Semisalova², Anastasia D Rubacheva², Andrey Rogalev³, Alevtina G Smekhova⁴ and Lada V Yashina², ¹Institute for Rare Metals, Moscow, 119017, Russian Federation, Russia; ²Lomonosov Moscow State University, Russia; ³European Synchrotron Radiation Facility, Grenoble Cedex, France; ⁴European Synchrotron Radiation Facility, Grenoble Cedex, France; Lomonosov Moscow State University, Russia
- PN23** Magnetic properties and electrical conductivity on oxygen-deficient europium monoxide
Jun-young Kim^{1*}, Pedro M.d.s. Monteiro¹, Kiyoung Lee¹, Adrian Ionescu¹, Stuart N Holmes², Crispin H.w. Barnes¹, Peter J Baker³, Sean Langridge³, Zaher Salman⁴, Andreas Suter⁴ and Thomas Prokscha⁴, ¹Department of Physics, Cavendish Laboratory, University of Cambridge, J J Thomson Avenue, Cambridge, CB3 0HE, United Kingdom; ²Toshiba Cambridge Research Laboratory, 208 Cambridge Science Park, Milton Road, Cambridge, CB4 OGZ, United Kingdom; ³ISIS, Harwell Science and Innovation Campus, STFC, Oxon OX11 0QX, United Kingdom; ⁴Laboratory for Muon-Spin Spectroscopy, Paul Scherrer Institut, CH-5232 Villigen PSI, Switzerland
- PN24** Magnetism and optical properties of diluted magnetic semiconductor superlattice GaGdAs/GaAs with GaGdAs nanograins
Miyagawa Hayato*, Yuuki Uda, Shoutaro Matsumoto, Nakaba Funaki and Shyun Koshiba, Faculty of Engineering, Kagawa University, Japan
- PN25** Ferromagnetism in hydrogenated fullerene
Kyu Won Lee, Gi-wan Jeon and Cheol Eui Lee*, Physics, Korea University, Korea
- PN26** Enhancement of the magneto-optical effect by an addition of Co in pseudo-quaternary II-VI magnetic semiconductor CdMnCoTe films
Masaaki Imamura* and Keisuke Ninomiya, Electrical Engineering, Fukuoka Institute of Technology, Japan

POSTER PRESENTATION

July 9 (Mon)

PN27 Origin of ferromagnetism in Co-doped (La,Sr)TiO₃ diluted magnetic semiconductors

Xuefeng Wang¹, Fengqi Song², Yi Shi¹, Rong Zhang¹ and Jianbin Xu³, ¹School of Electronic Science and Engineering, Nanjing University, China; ²Department of Physics, Nanjing University, China; ³Department of Electronic Engineering, The Chinese University of Hong Kong, China

PN28 Two dimensional growth of Nb doped SrTiO₃ thin films and its superlattices

Abhijit Biswas, Yong Woo Lee, Min Hwa Jung and Yoon Hee Jeong*, Department of Physics, Pohang University of Science and Technology, Korea

PN29 Anomalous hall effect in ferromagnetic nanocomposite FeGa/Fe₃Ga thin films

Dang Duc Dung¹, Duong Anh Tuan², Yooleemi Shin² and Sunglae Cho^{2*}, ¹Department of General Physics, School of Engineering Physic, Ha Noi University of Science and Technology, ¹Dai Co Viet road, Ha Noi, Viet Nam; ²Department of Physics, University of Ulsan, Ulsan 680-749, Korea

PN30 MnAs nanoclusters embedded in GaAs: Magnetism and transport properties

Duong Van Thiet¹, Dang Duc Dung², Yooleemi Shin³ and Sunglae Cho^{3*}, ¹Department of Physics, University of Ulsan, Ulsan 680-749, Korea; ²Department of General Physics, School of Engineering Physics, Ha Noi University of Science and Technology, ¹Dai Co Viet road, Ha Noi, Viet Nam; ³Department of Physics, University of Ulsan, Ulsan 680-749, Korea

PN31 Half-metallic and ferromagnetic properties of carrier doping in Zn_{1-x}Cu_xO

Byung-sub Kang¹, Kie-moon Song¹, Yong-sik Lim¹, Kyeong-sup Kim², Young-yeal Song² and Seong-cho Yu², ¹Dept. of Nano science and Mechanical engineering, Konkuk University, Korea; ²Dept. of Physics and BK21 Physics Program, Chungbuk National University, Korea

PO: Interdisciplinary topics

July 9 (Mon), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Joerg Schotter (AIT Austrian Institute of Technology, Austria)

PO01 Synthesis and characterization of surface functionalized magnetic polymer microspheres with multi-shell structure

Zuli Liu*, Qing Li and Kailun Yao, Physics, Huazhong University of Science and Technology, China

PO02 Production of Fe_{3-x}Zn_xO₄ nanoparticles for agents in hyperthermia treatment

Hiromasa Takeuchi*, Akinobu Kurokawa, Takuya Yanoh, Shinya Yano and Yuko Ichianagi, Yokohama National University, Japan

PO03 Gene delivery using polyethylenimine-coated magnetic nanoparticles by static and oscillating magnetic field

Yoshiyuki Takahashi¹, Satoshi Ota¹, Asahi Tomitaka¹, Tsutomu Yamada¹, Daisuke Kami², Shogo Takeda³, Masatoshi Watanabe³ and Yasushi Takemura¹, ¹Electrical and Computer Engineering, Yokohama National University, Japan; ²Kyoto Prefectural University of Medicine, Japan; ³Materials and Chemical Engineering, Yokohama National University, Japan

PO04 (Withdrawn) Fabrication of QD-anchored magnetic nanocomposites for biomedical applications

Hangdeok Oh and Sang-wha Lee*, Department of Chemical and Bio Engineering, Kyungwon University, Korea

PO05 Determination of biomolecule interaction in magnetic particle by voltammetry and ac impedance

Hoon Song and D. G. Park*, Korea Atomic Energy Research Institute, Korea

PO06 The effects of pulsed magnetic field stimulus on electromyographic activity

Juyeon Seo¹, Yongjin Kim¹, Jaehyun Kim¹, Sunghyun Kim¹, Do Gwen Hwang¹, Yun-yeop Cha² and Hyun Sook Lee^{1*}, ¹Department of Oriental Biomedical Engineering, Sangji University, Korea; ²Department of Oriental rehabilitation medicine, Sangji University, Korea

POSTER PRESENTATION

July 9 (Mon)

PO07 Magnetic anisotropy of Co_dFe_{3-d}O₄ nanoparticles for applications in magnetic hyperthermia

Costica Caizer*, Electricity and Magnetism, West University of Timisoara, Romania

PO08 Magnetic nanoemulsion as advanced drug delivery system applied to synergic procedures in the photodynamic therapy and hyperthermia trials using human mesenchymal stem cells as biological model

Fernando Lucas Primo¹, Daniela Regina Jardim¹, Paulo Cesar Morais² and Antonio Claudio Tedesco^{1*}, ¹Chemistry, Nanotechnology and Tissue Engineering Center, FFCLRP, Sao Paulo University, Ribeirao Preto, SP, Brazil; ²Physical, Brasilia University - UnB, Physical Institute, Brasilia-DF, 70910-900., Brazil

PO09 The morphological change of red blood cells in the hand exposed to the stimulus of strong pulse magnetic field

Jinyong Lee¹, Hyun Sook Lee¹, Jun Sang Yu² and Do Guwn Hwang^{1*}, ¹Oriental Medical Engineering, Sangji University, Korea; ²Oriental Medical, Sangji University, Korea

PO10 An analytical comparison in electroencephalography and electrocardiography during stimulus of pulsed magnetic field and acupuncture on acupoint PC9

Jinyoung Lee¹, Do Guwn Hwang¹, Yun-Yeop Cha² and Hyun Sook Lee^{1*}, ¹Department of Oriental Biomedical Engineering, Sangji University, Korea; ²Department of Oriental rehabilitation medicine, Sangji University, Korea

PO11 Reliability of a head movement compensation method based on minimum norm estimation for magnetoencephalographic recordings

Sanghyun Lim and Kiwoong Kim*, Brain and Cognition Measurement Lab, KRISS, Korea

PO12 The effect of small quantities of irradiation damage on the magnetic properties of Steel 316.

Robert Aldus¹, Jack Muir¹, Greg Lumpkin² and Paolo Imperia^{1*}, ¹bragg institute, ANSTO, Australia; ²IME, ANSTO, Australia

PO13 Study of a hybrid magnet array for an electrodynamic maglev control

Chan Ham¹, Kurt Lin², Younghoon Joo³ and Wonsuk Ko^{4*}, ¹Mechatronics Engineering, Southern Polytechnic State University, USA; ²Mechanical, Materials, and Aerospace, University of Central Florida, USA; ³Kunsan Nat'l University, Korea; ⁴Kyungwon.Univ, Korea

PO14 FEM simulation of magnetic treatment of surface vessel

Yongmin Kim¹, Hwiseok Kim², Kwan-seob Yoon³, Seon-ho Lim³, Jaewon Doh², Young-hak Kim⁴ and Kwang-ho Shin^{1*}, ¹Dept. of Information and Communication Engineering, Kyungsung University, Korea; ²S/W R&D Center, Project 5 team, LIGNex1, Korea; ³S/W R&D Center, Project 4 team, LIGNex1, Korea; ⁴Dept. of Information and Communication Engineering, Pukyong National University, Korea

PO15 Magnetically exchange-coupled nanoparticles as efficient heat inductor

Seung Ho Moon, Jung-tak Jang, Seung-hyun Noh, Jae-hyun Lee and Jinwoo Cheon*, Chemistry, Yonsei University, Korea

PO16 Theranostic magnetic nanoparticles

Seung-hyun Noh, Dongwon Yoo, Jae-hyun Lee, Jung-tak Jang, Seung Ho Moon and Jinwoo Cheon*, Center for Evolutionary Nanoparticles, Korea

PO17 Ion-texturing & Dynamics in Layered Compounds: From Electric Automobiles to Frustrated Magnetism

Martin Mansson^{1*}, Jun Sugiyama², Kazuhiko Mukai², Yutaka Ikeda³, Hiroshi Nozaki², Kazuya Kamazawa², Masashi Harada², Marisa Medarde⁴, Fanni Juranyi⁵, Jorge Gavilano⁵, James S. Lord⁶, Isao Watanabe⁷, Ekaterina Pomjakushina⁴, Kazimierz Conder⁴, Vladimir Pomjakushin⁵, Tsutomu Ohzuku⁸ and Tsunehiro Takeuchi⁹, ¹Lab. for Solid State Physics, ETH Zurich, Switzerland; ²Toyota Central Research and Development Labs. Inc., Japan; ³Muon Science Laboratory, KEK, Japan; ⁴LDM, Paul Scherrer Institut, Switzerland; ⁵Lab. for Neutron Scattering, Paul Scherrer Institut, Switzerland; ⁶ISIS, Rutherford Appleton Laboratory, United Kingdom; ⁷Muon Science Laboratory, RIKEN, Japan; ⁸Department of Applied Chemistry, Osaka City University, Japan; ⁹Department of Applied Physics, Nagoya University, Japan

POSTER PRESENTATION**July 9 (Mon)**

- PO18** Large resistive switching phenomenon induced by magnetic field in nano conduction path formed in SiO_2
Shintaro Otsuka, Tomohiro Shimizu*, Takashi Kato, Takuya Kyomi and Shoso Shingubara, *Kansai University, Japan*
- PO19** Size dependence simulation of saturated field in circular permalloy
Xinghao Hu, Byunghwa Lim, Ilgyo Jeong and Cheolgi Kim*, *Department of Materials Science and Engineering, Chungnam National University, Korea*
- PO20** A new definition of magneto-mechatronics and applications
Sung Hoon Kim*, Jaewon Shin, Shuichiro Hashi and Kazushi Ishiyama, *Research Institute of Electrical communication, Tohoku University, Japan*
- PO21** AC magnetic field frequency dependence of drug release characteristics for magnetic hyperthermia based polymer-drug encapsulate system for cancer treatment applications
Tejabhiram Yadavalli¹, Shivaraman Ramasamy¹, Gopalakrishnan Chandrasekaran¹ and Ramasamy R²,
¹*Nanotechnology Research Centre, SRM University, India;* ²*School of Pharmacy, SRM University, India*
- PO22** Account of the image forces in the $\text{Bi}_{1-x}\text{Sb}_x$ -insulator film structures.
Konstantin Nicolaevich Kashirin, *The Russian State Agrarian University-Moscow Timiryazev Agricultural Academy, Kaluga Branch, Russia*
- PO23** Time-resolved pump-probe measurement of polarization rotation in nano-structured chiral metamaterial
J. H. Woo¹, H. Y. Shin¹, M. J. Gwon¹, M. Vomir², M. Barthelemy², D. W. Kim¹, S. Yoon¹, J. Y. Bigot² and J. W. Wu^{1*}, ¹*Department of Physics & CNRS- Ewha International, Ewha Womans University, Korea;* ²*CNRS-IPCMS, University of Strasbourg, France*
- PO24** Structural and magnetic properties of glassy like carbon synthesized by pyrolysis of sucrose
Shivaraman Ramaswamy* and C Gopalakrishnan, *Nanotechnology Research Center, SRM University, India*
- PO25** Simulation of energy dispersive mode for RITA-type cold neutron triple axis spectrometer SIKA
Guochu Deng^{1*}, Peter Vorderwisch², Chun-ming Wu², Garry McIntyre¹ and Wen-hsien Li², ¹*Bragg Institute, Australian Nuclear Science and Technology Organization, Australia;* ²*Department of Physics, National Central University, Jhongli 32054, Taiwan, Australia*
- PO26** Efficiency of Energy base deperm protocol
Yongmin Kim¹, Young-hak Kim² and Kwang-ho Shin^{1*}, ¹*Dept. of Information and Communication Engineering, Kyungsung University, Korea;* ²*Pukyong National University, Korea*
- PO27** Effect of a magnetic field on mixed convection of a nanofluid in a square cavity
G. A. Sheikhzadeh^{1*}, S. Mazrouei Sebdani¹, M. Mahmoodi², Elham Safaeizadeh³ and Sayed Ebrahim Hashemi¹, ¹*Mechanical Engineering Department, University of Kashan, Iran;* ²*Mechanical Engineering Department, Amirkabir University of Technology, Iran;* ³*Department of Mathematics, Payame Noor University, Najafabad, Isfahan, Iran*
- PO28** Magnetohydrodynamic free convection in a square cavity heated from below and cooled from other walls
Ali Akbar Abbasian Arani*, Mostafa Mahmoodi and Saeed Mazrouei Sebdani, *Mechanical Engineering, University of Kashan, Iran*
- PO29** Interaction of a magnetic field and buoyancy force in a square cavity filled with a fluid with low Prandtl number
G. A. Sheikhzadeh^{1*}, S. E. Hashemi¹, S. Mazrouei Sebdani¹, M. Mahmoodi² and Elham Safaeizadeh³, ¹*Mechanical Engineering Department, University of Kashan, Iran;* ²*Mechanical Engineering Department, Amirkabir University of Technology, Tehran, Iran;* ³*Department of Mathematics, Payame Noor University, Najafabad, Isfahan, Iran*

POSTER PRESENTATION**July 10 (Tue)**

- PO30** Numerical study of magnetic field effects on flow field and heat transfer in a cavity filled with porous materials
G. A. Sheikhzadeh*, M. Aliakbari Miyan Mahaleh, A. A. Abbasian Arani and S. Mazrouei Sebdani, *Mechanical Engineering Department, University of Kashan, Iran*
- PO31** Numerical simulation of magnetohydrodynamic Benard convection in a shallow enclosure
G. A. Sheikhzadeh*, M. Mahmoodi and S. Mazrouei Sebdani, *Mechanical Engineering Department, University of Kashan, Iran*
- PO32** Near-electrode effects of magnetic fields in electrochemistry
Michael Coey and Peter Dunne, *Physics, Trinity College Dublin, Ireland*
- QA:** **Multiferroics II**
July 10 (Tue), 13:30~15:30, Exhibition Hall 1 (1F)
Chairperson: Jae-Ho Chung (Korea University, Korea)
- QA01** Resonant magnetic x-ray scattering: Beamline P09 at PETRA III at DESY
Joerg Stempfer, Sonia Francoual, Dinesh K. Shukla and Arvid Skaugen, *DESY, Germany*
- QA02** Magnetic and dielectric properties of FeTiO_3
Takayasu Kiyokawa^{1*}, Shigeki Yamada¹ and Takatsugu Masuda², ¹*Nanosystem Science, Yokohama City University, Japan;* ²*Institute for Solid State Physics, University of Tokyo, Japan*
- QA03** (Withdrawn) Theoretical study of tuning polarization and magnetism of BiCoO_3
Yu-jun Zhao and Xing-yuan Chen, *Department of Physics, South China University of Technology, China*
- QA04** Soft x-ray synchrotron radiation spectroscopy study of $\text{Co}_{0.6}\text{Fe}_{0.3}\text{Mn}_{1.5}\text{O}_4$ spinel with nano-checkerboard patterns
D.H. Kim¹, Jihoon Hwang¹, Eunsook Lee¹, S. W. Cheong², B. G. Park³, J. Y. Kim³ and J. S. Kang^{1*}, ¹*Department of Physics, The Catholic University of Korea, Korea;* ²*Department of Physics and Astronomy, Rutgers University, USA;* ³*Pohang Accelerator Laboratory, POSTECH, Korea*
- QA05** Zn-substitution effects in multiferroic $\text{Cu}_3\text{Mo}_2\text{O}_9$
Haruhiko Kuroe^{1*}, Kento Aoki¹, Ryusuke Itoh¹, Tomohiro Hosaka¹, Takuya Hasegawa¹, Suguru Hachiuma¹, Mitsuru Akaki¹, Hideki Kuwahara¹, Tomoyuki Sekine¹, Masashi Hase², Kunihiko Oka³, Toshimitsu Ito³ and Hiroshi Eisaki³, ¹*Department of Physics, Sophia University, Japan;* ²*National Institute for Material Science (NIMS), Japan;* ³*National Institute of Advanced Industrial Science and Technology (AIST), Japan*
- QA06** Effects of bismuth substitution on the magnetic properties of $\text{Bi}_x\text{Co}_{2-x}\text{MnO}_4$
Maria Elenice Dos Santos¹, Paulo Noronha Lisboa-filho² and Octavio Pena¹, ¹*Institut des Sciences Chimiques de Rennes, Universite de Rennes 1, France;* ²*Laboratorio de Materiais Eletronicos, Universidade Estadual Paulista, Brazil*
- QA07** Cross-correlation effects in multiferroic $\text{Cu}_3\text{Mo}_2\text{O}_9$
Ryusuke Itoh^{1*}, Tomohiro Hosaka¹, Takuya Hasegawa¹, Haruhiko Kuroe¹, Tomoyuki Sekine¹, Masashi Hase², Kunihiko Oka³, Toshimitsu Ito³ and Hiroshi Eisaki³, ¹*Sophia University, Japan;* ²*National Institute for Materials Science (NIMS), Japan;* ³*National Institute of Advanced Industrial Science and Technology (AIST), Japan*
- QA08** Nonlinear current-voltage characteristics of $(\text{La}_{0.5}\text{Eu}_{0.5})_{0.7}\text{Pb}_{0.3}\text{MnO}_3$ Single crystals: Possible manifestation of the internal heating of charge carriers
Kirill Shaykhutdinov*, *Kirensky Institute of Physics, Russia*

POSTER PRESENTATION

July 10 (Tue)

QA09 High field phase diagram in multiferroic Cu₃Mo₂O₉

Haruhiko Kuroe^{1*}, Ryo Kino¹, Ryusuke Itoh¹, Tomohiro Hosaka¹, Takuwa Hasegawa¹, Tomoyuki Sekine¹, Takumi Kihara², Masashi Tokunaga², Masashi Hase³, Kanji Takehana³, Hideaki Kitazawa³, Kunihiro Oka⁴, Toshimitsu Ito⁴ and Hiroshi Eisaki⁴, ¹Department of Physics, Sophia University, Japan; ²The Institute for Solid State Physics, The University of Tokyo, Japan; ³National Institute for Materials Science (NIMS), Japan; ⁴National Institute of Advanced Industrial Science and Technology (AIST), Japan

QA10 Magnetoelectric effect in Ca₂FeAlO₅

Nobuyuki Abe^{1*}, Khanh Duy Nguyen², Yoichi Nii², Yutaro Kitagawa³ and Taka-hisa Arima¹, ¹Department of Advanced Materials Science, The University of Tokyo, Japan; ²Department of Physics, Tohoku University, Japan; ³Department of Applied Physics, The University of Tokyo, Japan

QA11 Electronic and magnetic phase separation in the semimetallic ferromagnet EuB₆

Pintu Das¹, Adham Amyan¹, Jens Brandenburg¹, Jens Mueller^{1*}, Peng Xiong², Stephan Von Molnar² and Zachary Fisk³ ¹Institute of Physics, Goethe University Frankfurt, Germany; ²Dept. of Physics, Florida State University, Tallahassee, USA; ³Dept. of Physics, University of California, Irvine, USA

QA12 Study of magnetic and magnetodielectric properties of perovskite YbCrO₃

Jong-suck Jung, Ayato Iyama^{*}, Hiroyuki Nakamura, Yusuke Wakabayashi and Tsuyoshi Kimura, Division of Materials Physics, Osaka University, Japan

QA13 Interplay among spin, orbital, and lattice degrees of freedom in a frustrated spinel Mn₃O₄

Yoichi Nii^{1*}, Hiroshi Umetsu¹, Hajime Sagayama², Nobuyuki Abe², Kouji Taniguchi² and Taka-hisa Arima², ¹Dept. of Phys., Tohoku University, Japan; ²Dept. of Advanced Mater. Sci., The University of Tokyo, Japan

QA14 Structural and dielectric study of hexagonal Y_{0.8}Sr_{0.2}MnO₃ Compound

Rajesh K. Thakur^{1*}, Rasna Thakur², A. Bharathi³ and N.k. Gaur², ¹Department of Physics, Barkatullah University, Bhopal, India; ²Department of Physics, Barkatullah University, Bhopal, India; ³Condensed Matter Physics Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India

QA15 Controlling the superparamagnetic limit using the magnetoelectric effect

Hyungsuk K. D. Kim¹, Laura Schelhas², Sarah Tolbert² and Gregory P. Carman^{3*}, ¹Department of Materials Science and Engineering, UCLA, USA; ²Department of Chemistry and Biochemistry, UCLA, USA; ³Department of Mechanical and Aerospace Engineering, UCLA, USA

QA16 Magneto-Capacitance Effect and Electric Polarization in Spinel Co₂MnO₄

Sun Hee Kang¹, San Youn Park², Ill Won Kim¹, Yoon Hee Jeong³ and Tae Yeong Koo^{4*}, ¹Physics Department, Ulsan University, Korea; ²Physics Department, Pohang University of Science and Technology, Korea; ³Physics Department, Pohang University of Science and Technology, Korea; ⁴Pohang Accelerator Laboratory, Korea

QA17 Magnetically induced polarization in copper metaborate CuB₂O₄

Khanh Duy Nguyen¹, Nobuyuki Abe², Masashi Tokunaga³, Mitsuru Saito¹ and Taka-hisa Arima^{2*}, ¹Department of Physics, Tohoku University, Japan; ²Department of Advanced Materials Science, The University of Tokyo, Japan; ³Institute for Solid State Physics, The University of Tokyo, Japan

QA18 Impedance spectroscopy of ferromagnetic oxide: Pr_{0.6}Sr_{0.4}MnO₃

D V Maheswar Repaka¹ and Mahendiran Ramanathan², ¹PHYSICS, National University of Singapore, Singapore; ²Physics, National University of Singapore, Singapore

QA19 Structures and magnetic properties of Tm_{1-y}Y_yMn_{1-x}Co_xO₃

Toshiyuki Tanaka, Yusuke Amakai, Naoki Momono, Shigeyuki Murayama and Hideaki Takano*, Department of Applied Sciences, Muroran Institute of Technology, Japan

POSTER PRESENTATION

July 10 (Tue)

QA20 Complex magnetic and electric orders in multiferroic Co₃TeO₆

Chin-wei Wang¹, Chih-jen Wang¹, Wen-hsien Li^{1*}, Chih-chieh Chou², Hung-duen Yang², Yang Zhao³, Sung Chang³, Jeffrey W. Lynn³ and Helmuth Berger⁴, ¹Department of Physics and Center for Neutron Beam Applications, National Central University, Taiwan; ²Department of Physics and Center for Nanoscience and Nanotechnology, National Sun Yat-Sen University, Taiwan; ³NIST Center for Neutron Research, National Institute of Standards and Technology, Gaithersburg, USA; ⁴Institute of Physics of Complex Matter, EPFL, Lausanne, Switzerland

QA21 Annealing induced colossal magnetocapacitance and colossal magnetoresistance in in-doped CdCr₂S₄

Zhaorong Yang*, Institute of Solid State Physics, Chinese Academy of Sciences, China

QA22 (Withdrawn) Critical dynamics in LiCuVO₄

Christoph Grams^{1*}, Maximilian Schalenbach¹, Daniel Niermann¹, Petra Becker² and Joachim Hemberger¹, ¹II. Physikalisches Institut, University of Cologne, Germany; ²Institut für Kristallographie, University of Cologne, Germany

QA23 High quality crystal growth and Low temperature diffuse scattering studies

Shilpa Adiga*, Yixi Su, Jrg Persson and Manuel Angst, PGI-4, Forschungszentrum Juelich, Germany

QA24 Anomalous magnetodielectric and magnetostrictive effect via spin reorientation in terbium iron garnet

Ki-myung Song¹, Seongsu Lee² and Namjung Hur^{1*}, ¹Dept. of physics, Inha univ., Korea; ²Neutron Science Division, Korea Atomic Energy Research Institute, Korea;

QA25 Template based synthesis of multiferroic BiMnO₃ nanotubes and shape dependent study of its magnetic properties

Geo George Phillip, Anuraj Sundar, Mahdiyar Bagheri, Helen Annal Therese* and Gopalakrishnan Chandrasekaran, Nanotechnology Research Centre, SRM University, India

QA26 Solitary reentrant superconductivity prediction in asymmetrical ferromagnet-superconductor ferromagnet trilayer

Yuri N. Proshin*, Marat M. Khusainov, Arthur Minnulin and Mansur G. Khusainov, Theoretical Physics Department, Kazan Federal University, Russia

QA27 Tuning magnetic order, electromagnons and exchange bias by epitaxial strain in BiFeO₃ thin films

Manuel Bibes^{1*}, Daniel Sando¹, Arsene Agbelele², Maximilien Cazayous³, Ingrid Infante⁴, Wei Ren⁵, Sergey Lisenkov⁶, Cecile Carretero¹, Agnes Barthelemy¹, Laurent Bellaiche⁵, Jean Juraszek² and Brahim Dkhil⁴, ¹Unité Mixte de Physique CNRS/Thales, France; ²Université de Rouen, France; ³Université Paris Diderot, France; ⁴Ecole Centrale Paris, France; ⁵University of Arkansas, USA; ⁶University of South Florida, USA

QB: Superconductivity II

July 10 (Tue), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: L. Balicas (NHMFL, USA)

QB01 Magnetic-enhanced electron-phonon coupling and vacancy effect in '111' type iron pnictides from first-principles calculations

Mei Liu¹ and Bin Li², ¹Dept. of Physics, Southeast University, China; ²Department of Physics, Southeast University, China

QB02 Penetration depth and knight shift in iron-based superconductor Ba_{1-x}K_xFe₂As₂

Kazuki Ohishi^{1*}, Yasuyuki Ishii², Isao Watanabe³, Taku Saito⁴, Hideto Fukazawa⁴, Yoh Kohori⁴, Kunihiro Kihou⁵, Chul-ho Lee⁵, Hijiri Kito⁵, Akira Iyo⁵ and Hiroshi Eisaki⁵, ¹Research Center for Neutron Science and Technology, CROSS, Japan; ²Department of Physics, Tokyo Medical University, Japan; ³Advanced Meson Science Laboratory, RIKEN, Japan; ⁴Department of Physics, Chiba University, Japan; ⁵AIST, Japan

POSTER PRESENTATION

July 10 (Tue)

- QB03** Raman scattering study of the lattice dynamics in LiFeAs and $\text{Fe}_{1+y}\text{Te}_{1-x}\text{Se}_x$
Youngje Um, Max-Planck Institute, Stuttgart, Germany
- QB04** Magnetism and Superconductivity in $\text{Rb}_x\text{Fe}_{2-y}\text{Se}_2$
Kazuki Ohishi^{1*}, Shouhei Kototani², Shunsuke Saiki², Yoshiaki Kobayashi², Masayuki Itoh² and Masatoshi Sato¹, ¹Research Center for Neutron Science and Technology, CROSS, Japan; ²Department of Physics, Nagoya University, Japan
- QB05** (Withdrawn) Magnetic Resonant mode in the Spin-Excitation Spectrum of Superconducting $\text{Rb}_2\text{Fe}_4\text{Se}_5$ Single Crystals
Jitae Park, Max-Planck-Institute for Solid State Research, Germany
- QB06** Magnetic field-induced superconductivity in the canted antiferromagnet $\text{Eu}(\text{Fe}_{0.81}\text{Co}_{0.19})_2\text{As}_2$
Vinh Hung Tran^{1*}, T A Zaleski², Z Bukowski¹, L M Tran¹ and A J Zaleski¹, ¹Institute of Low Temperature and Structure Research, Polish Academy of Sciences, 50-950 Wroclaw, Poland; ²Institute of Low Temperature and Structure Research, Polish Academy of Sciences, 50-950, Poland
- QB07** Superconductivity and spin fluctuations in $\text{Ca}_{1-x}\text{Pr}_x\text{Fe}_3\text{As}_2$ superconductors studied by ^{75}As NMR
Long Ma^{1*}, Gaofeng Ji¹, Jia Dai¹, S. R. Saha², J. Paglione² and Weiqiang Yu¹, ¹Department of Physics, Renmin University of China, China; ²Center for Nanophysics and Advanced Materials, Department of Physics, University of Maryland, USA
- QB08** Importance and details of the spin excitation spectra in high-T_c pnictide superconductors
Tanmoy Das and A. V. Balatsky, Theoretical Division, Los Alamos National Laboratory, USA
- QB09** Angular dependence of the resistive upper critical field of an iron-based superconductor $\text{Fe}(\text{Te},\text{Se})$ in high magnetic fields
Takanori Kida¹, Yoshikazu Mizuguchi², Yoshihiko Takano³ and Masayuki Hagiwara¹, ¹KYOKUGEN, Osaka university, 1-3 Machikaneyama, Toyonaka, Osaka 560-8531, Japan; ²Grad. Sch. Sci. Eng., Tokyo Metropolitan University, 1-1 Minami-Osawa, Hachioji, Japan; ³National Institute for Materials Science, 1-2-1 Sengen, Tsukuba 305-0047, Japan
- QB10** Ab initio evidence of strong correlation and large Mott proximity in iron-based superconductors
Takahiro Misawa, Kazuma Nakamura and Masatoshi Imada, Dept. Applied Physics, Univ. of Tokyo, Japan
- QB11** As-NQR study of $\text{LaFeAsO}_{1-x}\text{F}_x$
Toshihide Oka^{1*}, Z Li¹, S Kawasaki¹, G F Chen², N L Wang² and G -q Zheng¹, ¹Department of Physics, Okayama university, Japan; ²Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Science, China
- QB12** Interplay between 3d- and 4f-electrons in $\text{ReFe}_{1-x}\text{Co}_x\text{AsO}$ ($\text{Re} = \text{Ce}, \text{Gd}$)
T. Shang¹, L. Yang¹, Y. Chen¹, L. Jiao¹, J. L. Zhang¹, J. Chen¹, H. Q. Yuan^{1*}, N. Cornell², A. Howard², A. Zakhidov², M. B. Salamom², F. Ronning³, E. D. Bauer³ and J. D. Thompson³, ¹Department of Physics and Center for Correlated Matter, Zhejiang University, China; ²UTD-NanoTech Institute, The University of Texas at Dallas, USA; ³Los Alamos National Laboratory, USA
- QB13** Anisotropic Hc2 curves determined up to 92 T and two-band superconductivity in $\text{Ca}_{10}(\text{Pt}_4\text{As}_8)((\text{Fe}_{1-x}\text{Pt}_x)_2\text{As}_2)_5$ superconductor
Eundeok Mun¹, Ni Ni², Jared M Allred², Robert J Cava², Oscar Ayala¹, Ross D McDonald¹, Neil Harrison¹ and Vivien S Zapf¹, ¹National High Magnetic Field Lab, Los Alamos National Lab, USA; ²Department of Chemistry, Princeton University, USA
- QB14** (Withdrawn) Effect of Ni-doping on superconductivity and magnetism in $\text{Eu}_{0.5}\text{K}_{0.5}\text{Fe}_2\text{As}_2$
Anupam Guleria¹, Vivek Kumar Anand², P.I. Paulose², S. Ramakrishnan², C. Geibel³ and Z. Hossain^{1*}, ¹Department of Physics, Indian Institute of Technology, Kanpur, India; ²DCMP&MS, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai-400 005, India; ³Max-Planck Institute for Chemical Physics of Solids 01187 Dresden, Germany

POSTER PRESENTATION

July 10 (Tue)

- QB15** ^{75}As NMR/NQR study of hole-doped superconductor $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$
Masanori Hirano¹, Yuji Yamada¹, Taku Saito¹, Ryo Nagashima¹, Hideto Fukazawa¹, Yoh Kohori^{1*}, Yuji Furukawa², Kunihiro Kihou³, Chul-ho Lee³, Akira Iyo³ and Hiroshi Eisaki³, ¹Department of Physics, Chiba University, Japan; ²Ames Laboratory and Department of Physics and Astronomy, Iowa State University, USA; ³National Institute of Advanced Industrial Science and Technology, Japan
- QB16** Homogeneous coexistence and phase segregation in the 1111 iron-based pnictides studied via NMR
Naoki Fujiwara^{1*}, Satoru Matsuishi², Yoichi Kamihara³ and Hideo Hosono², ¹Graduate School of Human & Environmental Studies, Kyoto University, Japan; ²Frontier Research Center (FRC), Tokyo Institute of Technology, Japan; ³Faculty of Science & Technology, Keio University, Japan
- QB17** NMR study of Fe-based superconductors $\text{K}_x\text{Fe}_2\text{Se}_2$
Yuusuke Tomita¹, Hisashi Koteawa^{1*}, Hideki Tou¹, Yoshikazu Mizuguchi², Hiroyuki Takeya² and Yoshihiko Takano², ¹Department of physics, Kobe University, Japan; ²NIMS, Japan
- QB18** (Withdrawn) Spectroscopy and anisotropies in the magnetic state of iron pnictides
Belen Valenzuela, Maria Jose Calderon, Gladys Leon, Noel A. Garcia and Elena Bascones*, Theory and Simulations of Materials, Instituto de Ciencia de Materiales de Madrid, Spain
- QB19** (Withdrawn) Magnetic interactions in iron pnictides
Maria Jose Calderon, Gladys Leon, Belen Valenzuela and Elena . Bascones*, Theory and Simulations of Materials, Instituto de Ciencia de Materiales de Madrid, Spain
- QB20** Te-doped $\text{K}_{0.80}\text{Fe}_{1.81}\text{Se}_{2-x}\text{Te}_x$ single crystals
C T Lin*, Crystal Growth, Max Planck Institute for Solid State Research, Germany
- QB21** High-pressure resonant x-ray emission study of $\text{Fe}_{1.0}\text{Se}$ superconductors
Jin-ming Chen, S. C. Haw, J. M. Lee, S. A. Chen, K. T. Lu, N. Hiraka, H. Ishii and K. D. Tsuei, National Synchrotron Radiation Research Center, Taiwan
- QB22** Microscopic coexistence and competition of magnetism and superconductivity in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$: A structural, magnetic, and superconducting phase diagram
Gwendolyn Pascual¹, Hubertus Luetkens¹, Erwin Wiesenmayer², Zurab Shermadini¹, Rustem Khasanov¹, Alex Amato¹, Hans-henning Klauss³ and Dirk Johrendt², ¹Laboratory for Muon Spin Spectroscopy, Paul Scherrer Institute, CH-5232 Villigen PSI, Switzerland; ²Department Chemie, Ludwig-Maximilians-Universitaet Muenchen, D-81377 Muenchen, Germany; ³Institut fuer Festkoerperphysik, TU Dresden, DE-01069 Dresden, Germany
- QB23** Anomalous superconducting phase in $\text{LaFeAsO}_{1-x}\text{H}_x$ studied via ^{75}As NMR
N. Fujiwara^{1*}, S. Tsutsumi¹, S. Iimura², S. Matsuishi² and H. Hosono², ¹Graduate School of Human & Environmental Studies, Kyoto University, Japan; ²Frontier Research Center (FRC), Tokyo Institute of Technology, Japan
- QB24** Multi-frequency ESR in EuFe_2As_2
Masami Ikeda¹, Tatsuya Kobayashi², Wataru Hirata², Shigeki Miyasaka², Setsuko Tajima² and Masayuki Hagiwara¹, ¹KYOKUGEN, Osaka University, 1-3 Machikaneyama, Toyonaka, Osaka 560-8531, Japan; ²Dep. of Phys., Faculty of Science, Osaka University, 1-1 Machikaneyama, Toyonaka, Osaka 560-0043, Japan
- QB25** Analysis of the critical current density and flux pinning properties in iron-based $\text{Ba}_{0.55}\text{K}_{0.45}\text{Fe}_2\text{As}_2$ high T_c superconductor
Dawood Ahmad¹, I S Park¹, G C Kim¹, Rock Kil Ko^{1,2}, J H Lee¹, and Y C Kim¹, ¹Department of Physics, Pusan National University, Korea; ²Korea Electrotechnology Research Institute, Changwon 641-120, Korea

POSTER PRESENTATION**July 10 (Tue)**

- QB26 In-plane anisotropy of magnetic and electric properties of the Fe pnictide $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)\text{As}_2$**
Yoshiaki Kobayashi^{1*}, Akihiro Ichikawa¹, Masayuki Itoh¹ and Masatoshi Sato², ¹Department of Physics, Graduate School of Science, Nagoya University, Japan; ²Research Center For Neutron Science And Technology, CROSS, Japan
- QB27 Vortex tunneling spectra of iron-pnictide superconductors**
Yuhei Kikuchi* and Hiroki Tsuchiura, Applied Physics, Tohoku University, Japan
- QB28 Direct observation of superconducting gaps and their anisotropies in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$**
Y. Ota^{1*}, K. Okazaki², Y. Kotani², T. Shimojima³, T. Kiss⁴, C. - T. Chen⁵, S. Watanabe⁶, K. Kihou⁷, C. H. Lee⁷, A. Iyo⁷, H. Eisaki⁷, T. Saito⁸, H. Fukazawa⁹, Y Kohori⁹ and S. Shin¹⁰, ¹ISSP, Japan; ²JST-CREST, Japan; ³Univ. of Tokyo, Japan; ⁴Osaka Univ., Japan; ⁵CAS, China; ⁶Tokyo Univ. of Sci., Japan; ⁷AIST, JST-TRIP, Japan; ⁸Chiba Univ., Japan; ⁹ST-TRIP, Chiba Univ., Japan; ¹⁰ISSP, JST-CREST, JST-TRIP, RIKEN, Japan
- QB29 Contrasting superconducting property in Fe-based superconductors ($\text{Ca}_4\text{Al}_2\text{O}_{6-y})(\text{Fe}_2\text{Pn})_2$ [Pn=As and P]**
Hiroaki Kinouchi¹, Hidekazu Mukuda¹, Mitsuharu Yashima¹, Yoshio Kitaoka¹, Chul-ho Lee², Parasharam M. Shirage², Hiroshi Eisaki² and Akira Iyo², ¹Department of Materials Engineering Science, Graduate School of Engineering Science, Osaka University, Japan; ²National Institute of Advanced Industrial Science and Technology (AIST), Japan
- QB30 Superconducting properties of $\text{FeTe}_{1-x}\text{Se}_x$ single crystals: impact of disorder and hydrostatic pressure**
Roman Puzniak*, Dariusz J. Gawryluk, Marek Berkowski, Piotr Dluzewski, Jaroslaw Pietosa, Aleksander Wittlin and Andrzej Wisniewski, Institute of Physics, Polish Academy of Sciences, Aleja Lotników 32/46, PL-02-668 Warsaw, Poland
- QB31 The influence of superconductivity with magnetism in superconductor/magnetic heterostructures**
Jeehoon Kim*, R. Baumbach, N. Haberkorn, J. Lee, L. Civale, Q. Jia, A. J. Taylor, E. Bauer, J. D. Thompson and R. Movshovich, Los Alamos National Laboratory, USA

QC: Heavy fermions II

July 10 (Tue), 13:30-15:30, Exhibition Hall 1 (1F)
Chairperson: N. Metoki (JAEM, Japan)

- QC01 The influence of the magnetic moment on the atomic distance in amorphous $\text{Ce}_x\text{Ru}_{100-x}$**
Yingjie Li¹, Nakai Ikuo^{2*}, Amakai Yusuke³ and Shigeyuki Murayama³, ¹Inner Mongolia Key Laboratory for Physics and Chemistry of Functional Materials, Physics and Electronic Information College, Inner Mongolia Normal University, Hohhot 010022, China; ²Department of Electrical and Electronic Engineering, Graduate School of Engineering, Tottori University, Tottori 680-8552, Japan; ³Department of Materials Science and Engineering, Muroran Institute of Technology, Hokkaido 050-8585, Japan
- QC02 Theoretical studies of the superconductivity and antiferromagnetism coexistence and the divergence of effective electron mass near quantum critical point in CeRhIn_5**
Valery V. Val'kov and Anton O. Zlotnikov, Laboratory of Theoretical Physics, L.V. Kirensky Institute of Physics, Russia
- QC03 Josephson effect between UPt_3 and Nb under pressure**
Akihiko Sumiyama^{1*}, Jun Gouchi¹, Gaku Motoyama¹, Akira Yamaguchi¹, Noriaki Kimura², Etsuji Yamamoto³, Yoshihori Haga³ and Yoshichika Onuki⁴, ¹Univ. of Hyogo, Japan; ²Tohoku Univ., Japan; ³JAEA, Japan; ⁴Osaka Univ., Japan
- QC04 Hidden order in URu_2Si_2 --- Analysis based on the first-principles approach**
Hiroaki Ikeda^{1*}, Michi-to Suzuki², Ryotaro Arita³, Tetsuya Takimoto⁴, Takasada Shibauchi¹ and Yuji Matsuda¹, ¹Department of Physics, Kyoto university, Japan; ²CCSE, Japan Atomic Energy Agency, Japan; ³Department of Applied Physics, University of Tokyo, Japan; ⁴Asia Pacific Center for Theoretical Physics, POSTECH, Korea

POSTER PRESENTATION**July 10 (Tue)**

- QC05 Sb NQR study of filled skutterudite $\text{CeFe}_4\text{Sb}_{12}$ synthesized under high pressure**
Ko-ichi Magishi^{1*}, Hitoshi Sugawara², Masahiro Takahashi¹, Takahito Saito¹, Kuniyuki Koyama¹, Takashi Saito³, Sho Tatsuoka³, Kenya Tanaka³ and Hideyuki Sato³, ¹Institute for Socio-Arts and Sciences, The University of Tokushima, Japan; ²Graduate School of Science, Kobe University, Japan; ³Graduate School of Science, Tokyo Metropolitan University, Japan
- QC06 High-mobility magnetotransport of the narrow-gap semiconductor FeSb_2**
Hidefumi Takahashi*, Ryuji Okazaki, Yukio Yasui and Ichiro Terasaki, Department of Physics, Nagoya University, Japan
- QC07 A possible ferromagnetic quantum critical point in $\text{CeFe}_{1-x}\text{Ru}_x\text{PO}$**
Tetsuro Nakamura¹, Takashi Yamamoto², Masanori Matoba¹, Yasuaki Einaga² and Yoichi Kamihara¹, ¹Department of Applied Physics and Physico-Informatics, Keio University, Japan; ²Department of Chemistry, Keio University, Japan
- QC08 Ru doping evolution of magnetic properties in $\text{Ce}(\text{Fe}_{1-x}\text{Ru}_x)\text{PO}$ studied by $^{31}\text{P-NMR}$**
Shunsaku Kitagawa^{1*}, Yusuke Nakai², Kenji Ishida¹, Hiroaki Ikeda³, Kensuke Iritani⁴, Masanori Matoba⁴, Youichi Kamihara⁴, Masahiro Hirano⁵ and Hideo Hosono⁶, ¹Department of Physics, Kyoto University JST-TRIP, Japan; ²Department of Physics, Kyoto University JST-TRIP *present address Graduate School of Science, Tokyo Metropolitan University, Japan; ³Department of Physics, Kyoto University, Japan; ⁴Departments of Applied Physics and Physico-Informatics, Keio University, Japan; ⁵Frontier Research Center, Tokyo Institute of Technology, Japan; ⁶Frontier Research Center, Materials and Structures Laboratory, Tokyo Institute of Technology, Japan
- QC09 (Withdrawn) Determining the orientation of the 4f ground state orbital in CeCu_2Si_2 with vector \mathbf{q} dependent non-resonant inelastic X-ray scattering (NRIXS).**
Thomas Willers^{1*}, Fabio Strigari¹, Yong Cai², Nozomu Hiraoka³, Ku-ding Tsuei³, Yen-fa Liao³, Maurits Wim Haverkort⁴, Silvia Seiro⁵, Christoph Geibel⁵, Frank Steglich⁵, Liu Hao Tjeng⁵ and Andrea Severing¹, ¹Institute of Physics II, University of Cologne, Germany; ²Brookhaven National Laboratory, USA; ³National Synchrotron Radiation Research Center, Hsinchu, Taiwan; ⁴Max Planck Institute for Solid State Research, Stuttgart, Germany; ⁵Max Planck Institute for Chemical Physics of Solids, Dresden, Germany
- QC10 Possible superconducting fluctuation in pressure-induced heavy-fermion superconductor CeRhSi_3**
Noriaki Kimura*, Tetsuya Sugawara, Hiroki Iida and Haruyoshi Aoki, Department of Physics, Tohoku University, Japan
- QC11 Thermoelectric power in a single-crystalline CeRhSi_3**
Hidekazu Tanaka^{1*}, Naofumi Aso², Yoshinao Takaesu¹, Masato Hedo², Takao Nakama², Hiroki Iida³, Noriaki Kimura³ and Haruyoshi Aoki³, ¹Graduate School of Engineering and Science, University of the Ryukyus, Japan; ²Faculty of Science, University of the Ryukyus, Japan; ³Graduate School of Science, Tohoku University, Japan
- QC12 (Withdrawn) Valence of $\text{CeM}_2\text{Al}_{10}$ (M=Ru, Os, and Fe) determined with hard X-ray photo emission spectroscopy (HAXPES).**
Fabio Strigari¹, Thomas Willers¹, Ku Ding Tsuei², Yen Fa Liao², Arata Tanaka³, K. Yutani³, Y. Muro³, Toshiro Takabatake³, Liu Hao Tjeng⁴ and Andrea Severing^{1*}, ¹University of Cologne, Germany; ²National Synchrotron Radiation Research Center, Taiwan; ³ADSM, Hiroshima University, Japan; ⁴Max Planck Institute for Chemical Physics of Solids, Dresden, Germany
- QC13 Studies on novel tetragonal Ce_2RhGa_3 heavy fermion compound**
Ramamoorthi Nagalakshmi^{1*}, Sengodan Nallamuthu¹, Varadharajan Krishnakumar², Celine Besnard³, Hans Hagemann⁴ and Marian Reiffers⁵, ¹Physics, National Institute of Technology, Tiruchirappalli, India; ²Physics, Periyar University, Salem, India; ³Laboratory of Crystallography, Laboratory of Crystallography, University of Geneva, 24 Quai Ernest-Ansermet, CH-1211 Geneva 4, Swit, Switzerland; ⁴Physical Chemistry, University of Geneva, Geneva, Switzerland, Switzerland; ⁵Physics, Institute of Experimental Physics, Slovak Academy of Sciences, Kosice, Slovakia, Slovak

POSTER PRESENTATION**July 10 (Tue)**

- QC14 Electronic structures of plutonium compounds with the NaCl-type monochalcogenides structure**
Takahiro Maehira^{1*}, Yasutomi Tatetsu² and Eijiro Sakai¹, ¹*Faculty of Science, University of the Ryukyus, Nishihara, Okinawa 903-0213, Japan;* ²*Graduate school of Engineering and Science, University of the Ryukyus, Nishihara, Okinawa 903-0213, Japan*
- QC15 Electronic property of ThSn₃ in comparison with uranium and transuranium compounds**
Yasutomi Tatetsu^{1*}, Takahiro Maehira² and Eijiro Sakai², ¹*Graduate school of Engineering and Science, University of the Ryukyus, Japan;* ²*Faculty of Science, University of the Ryukyus, Japan*
- QC16 Multipolar phase transition of the 4f2 nonmagnetic doublet in a caged compound PrRh₂Zn₂₀**
Nagasawa Naohiro¹, Matsumoto T Keisuke¹, Wakiya Kazuhei¹, Onimaru Takahiro¹, Umeo Kazunori¹, Kittaka Shunichiro², Sakakibara Toshiro² and Takabatake Toshiro¹, ¹*Hiroshima University, Japan;* ²*The University of Tokyo, Japan*
- QC17 Crystal growth and low temperature properties of non-centrosymmetric heavy-fermion comound CeTAl₃ (T = Cu, Ag, Au)**
Christian Franz, Alexander Regnat, Andreas Bauer and Christian Pleiderer, *Department fur Physik, Technische Universität München, Germany*
- QC18 Enhancement of the hall coefficient under pressure in CeCu₂Si₂**
Shingo Araki^{1*}, Naoto Nishiumi¹, Minami Hayashida¹, Takafumi Shinohara¹, Yoichi Ikeda¹, Tatsuo C. Kobayashi¹, Silvia Seiro², Christoph Geibel² and Frank Steglich², ¹*Department of Physics, Okayama University, Japan;* ²*Max Planck Institute for Chemical Physics of Solids, Germany*
- QC19 Saturation moment in the ferromagnetic state of EuB₆**
Vladimir V. Glushkov^{1*}, Alexey V. Bogach¹, Alexey V. Semeno¹, Sergey V. Demishev¹, Vsevolod Yu. Ivanov¹, Nickolay E. Sluchanko¹, Alexey V. Kuznetsov², Sergey Yu. Gavrilkin³, Kirill V. Mitsen³, Natalja Yu. Shitsevalova⁴, Vladimir B. Filipov⁴, Johan Vanacken⁵ and Victor Moshchalkov⁵, ¹*Low Temperatures and Cryogenic Engineering Dept., A.M.Prokhorov General Physics Institute of RAS, Russia;* ²*National Research Nuclear University MEPhI, Russia;* ³*P.N.Lebedev Physical Institute of RAS, Russia;* ⁴*I. Frantsevich Institute for Problems of Materials Science NASU, Ukraine;* ⁵*Institute for Nanoscale Physics and Chemistry, Katholieke Universiteit Leuven, Belgium*
- QC20 Magnetization of Tm_{1-x}Yb_xB₁₂ in strong pulsed and steady magnetic fields**
Alexey Bogach^{1*}, Nickolay Sluchanko¹, Vladimir Glushkov¹, Sergey Demishev¹, Andrey Azarevich¹, Vladimir Filipov², Natalia Shitsevalova², Slavomir Gabani³, Karol Flachbart³, Johan Vanacken⁴ and Victor Moshchalkov⁴, ¹*Low temperature and cryogenic engineering, A.M.Prokhorov General Physics Institute RAS, Russia;* ²*Institute for Problems of Materials Science NASU, Ukraine;* ³*Institute of Experimental Physics, Slovak Academy of Sciences, Slovak;* ⁴*Institute for Nanoscale Physics and Chemistry of KUL, Belgium*
- QC21 Stabilization of ferromagnetism and existence of ferromagnetic quantum criticality in UCo_{1-x}Ru_xGe system**
Michal Valiska*, Jiri Pospisil, Martin Divis, Jan Prokleska and Vladimir Sechovsky, *DCMP, Charles University, Ke Karlovu 5, 121 16, Prague, Czech Republic*
- QC22 Thermal properties of RB₆ (R-La, Ce, Pr, Nd)**
M. A. Anisimov^{1*}, A. V. Bogach¹, V. V. Glushkov¹, S. V. Demishev¹, N. A. Samarin¹, S. Gavrilkin², N. Yu. Shitsevalova³, A. V. Levchenko³, V. B. Filipov³, S. Gabani⁴, K. Flachbart⁴ and N. E. Sluchanko¹, ¹*Low Temperatures and Cryogenic Engineering Dept., A.M.Prokhorov General Physics Institute of RAS, Russia;* ²*P.N.Lebedev Physical Institute of RAS, Russia;* ³*Institute for Problems of Materials Science NAS, Ukraine;* ⁴*Institute of Experimental Physics of SAS, Slovak*

POSTER PRESENTATION**July 10 (Tue)**

- QC23 Magnetic penetration depth and skin depth study of superconductivity and quantum criticality in Ce_{1-x}R_xColn₅ (R=La and Nd)**
H. Kim¹, M. A. Tanatar¹, K. Cho¹, J. Murphy¹, R. Hu², C. Petrovic² and R. Prozorov^{1*}, ¹*The Ames Laboratory, USA;* ²*Brookhaven National Laboratory, USA*
- QC24 Low energy spin excitations in single-crystalline CeCu₂Ge₂ in magnetic fields up to 10T**
Astrid Schneidewind^{1*}, Michael Loewenhaupt², Oliver Stockert³ and Enrico Faulhaber¹, ¹*Helmholtz-Zentrum Berlin für Materialien und Energie, Germany;* ²*IFP, TU Dresden, Germany;* ³*MPI-CPfS Dresden, Germany*
- QC25 Magnetization measurements under high pressure on incommensurate-commensurate phase transitions on UPd₂Si₂**
Hiroyuki Hidaka, Hideki Igarashi, Yusei Shimizu, Chihiro Tabata, Tatsuya Yanagisawa and Hiroshi Amitsuka, *Graduate School of Science, Hokkaido University, Japan*
- QD: Valence fluctuations**
July 10 (Tue), 13:30~15:30, Exhibition Hall 1 (1F)
Chairperson: Yong Seung Kwon (DGIST, Korea)
- QD01 Fe doping and magnetic field effect in the valence fluctuating heavy fermion system α-YbAlB₄**
Kentaro Kuga, Keita Sone, Yosuke Matsumoto, Eoin Conor O'farrell and Satoru Nakatsuji, *Institute for Solid State Physics, Japan*
- QD02 Magnetic and electric properties of single crystal SmBaMn₂O₆**
Youichi Maeda^{1*}, Shigeki Yamada¹ and Takahisa Arima², ¹*Yokohama city univercity, Japan;* ²*Univercity of Tokyo, Japan*
- QD03 Phase diagram and Eu valence state in EuPtP_{1-x}As_x**
Masaki Sugishima¹, Akihiro Mitsuda¹, Hirofumi Wada^{1*}, Masahiko² Isobe and Yutaka Ueda², ¹*Department of Physics, Kyushu University, Japan;* ²*Institute for Solid State Physics, University of Tokyo, Japan*
- QD04 Investigation of crystal structure, magnetism and transport properties of SrFe_{1-x}Ti_xO_{3-δ} systems**
Sendilkumar A¹, Babu P. D.², Manivelraja M³, R.reddy V⁴ and Srinath S^{1*}, ¹*School of Physics, University of Hyderabad, India;* ²*UGC-DAE Consortium for Scientific Research, R-5 Shed, B.A.R.C,Mumbai, 400 085, India;* ³*School of Physics, Advanced Magnetics Group ,DMRL,Hyderabad, 500 046 ,A.P, India;* ⁴*UGC-DAEF,Khandwa Road, Indore, 425017, M.P, India*
- QD05 Evolution from a localized to an intermediate valence regime in Ce₂Cu_{2-x}Ni_xIn**
Adam Pikuł* and Dariusz Kaczorowski, *Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Poland*
- QD06 Substitution effect in CeFe₂Al₁₀**
Takashi Nishioka¹, Yuta Oogane¹, Daishi Hirai¹, Harukazu Kato¹, Masahiro Matsumura¹, Yukihiro Kawamura² and Chihiro Sekine², ¹*Physics, Kochi University, Japan;* ²*Physics, Muroran Institute of Technology, Japan*
- QD07 Fermi surface and electronic correlations in a valence fluctuating Eu-system: an experimental and theoretical study of Eulr₂Si₂**
Silvia Seiro¹, Oleg Ignatchik², Violeta Guritanu¹, Vivien Petzold¹, Takuya Iizuka³, Kathrin Gotze², Jorg Sichelschmidt¹, Shin-ichi Kimura³, Horst Borrman¹, Jochen Wosnitza², Helge Rosner¹ and Christoph Geibel^{1*}, ¹*Max Planck Institute for Chemical Physics of Solids, Germany;* ²*High Magnetic Field Laboratory Dresden, Helmholtz Center Dresden-Rossendorf, Germany;* ³*Institute for Molecular Science, UVSOR Facility, Okazaki 444-8585, Japan*

POSTER PRESENTATION**July 10 (Tue)****QD08 Heat capacity and electrical resistivity of CeNi_{5-x}Ge_x**

Mariana Zapotokova¹, Ivan Curiak², Marian Reiffers³ and Mauro Giovannini⁴, ¹*Institute of Experimental Physics, Watsonova 47, SK 043 53 Kosice, Slovakia; ²Centre od Low Temperature Physics, Institute of Experimental Physics, Watsonova 47, SK 043 53 Kosice, Slovakia; ³Centre od Low Temperature Physics, Institute of Experimental Physics, Slovak Academy of Sciences, Kosice, Slovakia; ⁴CNR-SPIN and Department of Chemistry, CNR-SPIN and Department of Chemistry, University of Genova I-16146 Genova, Italy*

QD09 Antiferromagnetic order in Yb₅Rh₄Ge₁₀

Kazunori Umeo^{1*}, Kenichi Katoh² and Toshiro Takabatake³, ¹*N-BARD, Hiroshima University, Kagamiyama 1-3-1, Higashi-Hiroshima 739-8526, Japan; ²Department of Applied Physics, National Defense Academy, Yokosuka 239-8686, Japan; ³AdSM and IAMR, Hiroshima University, Kagamiyama 1-3-1, Higashi-Hiroshima 739-8530, Japan*

QD10 Magnetic field dependence of the resistivity minimum of nanosized YbAl₃

C. Echevarria-Bonet^{1*}, D. P. Rojas², L. Fernandez Barquin¹, J. C. Gomez Sal¹, S. N. Kaul³, B. Coqblin⁴, S. G. Magalhaes⁵ and E. Bauer⁶, ¹*CITIMAC, Universidad de Cantabria, Spain; ²Departamento de Fisica, Universidad Carlos III de Madrid, Spain; ³School of Physics and Centre for Nanotechnology, University of Hyderabad, India; ⁴Laboratoire de Physique des Solides, CNRS-Universite Paris-Sud, France; ⁵Instituto de Fisica, Universidade Federal Fluminense, Brazil; ⁶Institute of Solid State Physics, TU Wien, Austria*

QD11 Electronic states of Eu₄As₃ under high pressure

Hisao Kobayashi^{1*}, Yoshitaka Yoda² and Akira Ochiai³, ¹*Graduate School of Material Science, University of Hyogo, Japan; ²Japan Synchrotron Radiation Institute, Japan; ³Department of Physics, Tohoku University, Japan*

QD12 Pressure effect on intermediate valence semiconductor SmB₆: 11B-NMR

Kouhei Nishiyama¹, Gabriel Pristas², Takeshi Mito¹, Takao Kohara¹, Slavomir Gabani², Marian Reiffers², Yasuhiro Komaki³, Mitutane Kokubu³, Hideto Fukazawa³, Yoh Kohori³, Nao Takeshita⁴ and Natalia Shitsevalova⁵, ¹*Graduate school of Material Science, University of Hyogo, Japan; ²Institute of Experimental Physics, Slovak Academy of science, Slovakia; ³Graduate School of Science, Chiba University, Japan; ⁴Nanoelectronics Research Institute, National Institute of Advanced Industrial Science and Technology, Japan; ⁵Institute for Problems of Material Science, National Academy of science of Ukraine, Ukraine*

QD13 Magnetic properties of ytterbium fluoride sulfide Yb₃F₄S₂

Masashi Kosaka¹, Takuya Kobiyama¹, Hiroko Aruga Katori² and Naoki Shirakawa³, ¹*Graduate School of Science and Engineering, Saitama University, Japan; ²Division of Advanced Frontier Applied Physics, Tokyo University of Agriculture and Technology, Japan; ³Nanosystem Research Institute, National Institute of Advanced Industrial Science and Technology, Japan*

QD14 Physical properties of the layered oxypnictides (CeO)MnPn; Pn=As, Sb

Morosawa Yasuhiro¹, Takase Koichi^{1*}, Onizawa Manami¹, Moriyoshi Chikako², Kuroiwa Yoshihiro¹, Watanabe Tadataka¹ and Takano Yoshiki¹, ¹*Nihon University, Japan; ²Hiroshima University, Japan*

QD15 31P-NMR study of valence fluctuating compound EuPtP

Takeshi Mito¹, Koji Nishitani¹, Takehide Koyama¹, Koichi Ueda¹, Takao Kohara¹, Akihiro Mitsuda², Masaki Sugishima² and Hirofumi Wada², ¹*University of Hyogo, Japan; ²Kyushu University, Japan*

QD16 Magnetic behavior of polycrystalline Eu₅Si₃ compound

Sujata M. Patil^{1*}, P. L. Paulose² and E. V. Sampathkumaran², ¹*Wilson College, Mumbai 400007, India; ²Tata Institute of Fundamental Research, Colaba, Mumbai 400005, India*

POSTER PRESENTATION**July 10 (Tue)****QD17 Valence fluctuation study by using X-ray absorption and emission spectroscopies at Yb L3-edge in YbNi₃X₉ (X=Al and Ga)**

Naomi Kawamura¹, Masaichiro Mizumaki¹, Hisashi Hayashi², Noriko Kanai², Kazuyuki Matsabayashi³, Yoshiya Uwatoko³, Tetsuro Yamashita⁴ and Shigeo Ohara⁴, ¹*Japan Synchrotron Radiation Research Institute (JASRI)/SPring-8, Japan; ²Department of Chemical and Biological Science, Japan Women's University, Japan; ³Institute for Solid State Physics, University of Tokyo, Japan; ⁴Department of Engineering Physics, Nagoya Institute of Technology, Japan*

QD18 Angle-resolved photoemission spectroscopy of mixed-valence Sm_{1-x}Y_xS

Keiichiro Imura^{1*}, Tetsuya Hajiri², Masaki Kaneko², Yusuke Nishi², Hiroyuki S. Suzuki³, Noriaki K. Sato², Takahiro Ito², Masaharu Matsunami¹ and Shin-ichi Kimura¹, ¹*UVSOR Facility, Institute for Molecular Science, Japan; ²Nagoya University, Japan; ³National Institute for Materials Science, Japan*

QE: Frustrated systems, Kagome, Triangular systems

July 10 (Tue), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: A. Miyata (University of Tokyo, Japan)

QE01 Critical behavior of a spin-1 triangular lattice Ising antiferromagnet

Milan Zukovic* and Andrej Bobak, *Department of Theoretical Physics and Astrophysics, Faculty of Science, P. J. Safarik University, Slovakia*

QE02 Selectively diluted triangular lattice ising antiferromagnet in an external magnetic field

Andrej Bobak*, Michal Borovsky and Milan Zukovic, *Department of Theoretical Physics and Astrophysics, Faculty of Science, P.J. Safarik University, Slovakia*

QE03 Possible magnetic transition observed in S=1/2 kagome antiferromagnet volborthite by high field ESR

Hitoshi Ohta^{1*}, Wei-min Zhang¹, Susumu Okubo¹, Takahiro Sakurai², Yoshihiko Okamoto³, Hiroyuki Yoshida⁴ and Zenji Hiroi³, ¹*Molecular Photoscience Research Center, Kobe University, Japan; ²Center for Supports to Research and Education Activities, Kobe University, Japan; ³Institute for Solid State Physics, University of Tokyo, Japan; ⁴National Institute for Materials Science (NIMS), Japan*

QE04 Field-induced staggered moment stabilization in frustrated quantum magnets

Burkhard Schmidt*, Mohammad Siahatgar and Peter Thalmeier, *Max-Planck-Institut fur Chemische Physik fester Stoffe, Germany*

QE05 Structural and magnetic properties of single crystals of volborthite comprising a distorted spin-1/2 kagome lattice

Hajime Ishikawa^{1*}, Yoshihiko Okamoto¹, Junichi Yamaura¹, Hiroyuki Yoshida², Gørán J. Nilsen¹ and Zenji Hiroi¹, ¹*ISSP, the University of Tokyo, Japan; ²NIMS, Japan*

QE06 (Withdrawn) High-field study of multiferroic Ni₃V₂O₈

Junfeng Wang¹, Masashi Tokunaga², Zhangzhen He³ and Koichi Kindo², ¹*Wuhan National High Magnetic Field Center, China; ²The Institute for Solid State Physics (ISSP), The University of Tokyo, Japan; ³Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, China*

QE07 Gapless spin excitation of the triangular-lattice antiferromagnet

Hiroki Nakano^{1*} and Toru Sakai², ¹*University of Hyogo, Japan; ²JAEA, SPring8, Japan*

QE08 Magnetic properties of the spin-1/2 kagome antiferromagnets: vesignieite BaCu₃V₂O₈(OH)₂ and CdCu₃(OH)₆Br₂

Yoshihiko Okamoto^{1*}, Makoto Yoshida¹, Hajime Ishikawa¹, Gørán J. Nilsen¹, Hiroyuki Yoshida², Masashi Takigawa¹ and Zenji Hiroi¹, ¹*Institute for Solid State Physics, Univ. of Tokyo, Japan; ²National Institute for Materials Science, Japan*

POSTER PRESENTATION**July 10 (Tue)****QE09 Spin dynamics of triangular spin tubes**

Hirotaka Manaka^{1*} and Yoko Miura², ¹*Graduate School of Science and Engineering, Kagoshima University, Japan; ²Suzuka National College of Technology, Japan*

QE10 Origin of field induced magnetic ordering in frustrated honeycomb lattice antiferromagnet

Susumu Okubo^{1*}, Tomonari Ueda², Wei-min Zhang³, Takahiro Sakurai⁴, Masashi Fujisawa¹, Hitoshi Ohta¹, Nozomi Ohnishi⁵, Masaki Azuma⁶, Yuichi Shimakawa⁵ and Nobuhiro Kumada⁷, ¹*Molecular Photoscience Research Center, Kobe University, Japan; ²Graduate School of Science, Kobe University, Japan; ³Center for Collaborative Research and Technology Development, Kobe University, Japan; ⁴Center for Supports to Research and Education Activities, Kobe University, Japan; ⁵Institute for Chemical Research, Kyoto University, Japan; ⁶Materials and Structures Laboratory, Tokyo Institute of Technology, Japan; ⁷Graduate School of Medicine and Engineering, University of Yamanashi, Japan*

QE11 Semi-classical spin-liquid state as a low-energy excited state in frustrated quantum spin systems on triangle-based lattice system

Makoto Isoda¹, Hiroki Nakano² and Toru Sakai³, ¹*Kagawa University, Japan; ²University of Hyogo, Japan; ³JAEA Spring-8, Japan*

QE12 High pressure and low-temperature ³¹P NMR study of the two-dimensional frustrated square lattice compound BaCdVO(PO₄)₂

Yuji Furukawa¹, Beas Roy¹, Ramesh Nath², David C Johnston¹, Yasuhiro Komaki³, Hideto Fukazawa³ and Yoh Kohori³, ¹*Department of Physics and Astronomy, Iowa State University / Ames Laboratory, USA; ²Indian Institute of Science Education and Research, India; ³Department of Physics, Chiba University, Japan*

QE13 Kasteleyn transitions in the spin ice Dy₂Ti₂O₇

Hiroaki Kadokami^{1*}, Naohiro Doi¹, Hiroshi Takatsu¹, Ryuji Higashinaka¹, Yuji Muro², Kyoichiro Motoya³, Rei Morinaga⁴, Taku J Sato⁴, Takashi Tayama⁵, Toshiro Sakakibara⁴, Kazuyuki Matsuhira⁶ and Zenji Hiroi⁴, ¹*Department of Physics, Tokyo Metropolitan University, Japan; ²Toyama Prefectural University, Japan; ³Department of Physics, Tokyo University of Science, Japan; ⁴Institute for Solid State Physics, University of Tokyo, Japan; ⁵Department of Physics, University of Toyama, Japan; ⁶Department of Electronics, Kyushu Institute of Technology, Japan*

QE14 Novel frustrated quantum antiferromagnets in the solid-solution Cs₂CuCl_{4-x}Br_x through site-selective halide substitution

Bernd Wolf*, Pham Thanh Cong, Natalia Kruger, Franz Ritter, Wolf Assmus and Michael Lang, *Physics Institute, Goethe-University Frankfurt (M), SFB/TR 49, D-60438 Frankfurt (M), Germany*

QE15 Strong geometrical frustration in Fe oxychalcogenide

Sungdae Ji¹, K. Horigane² and K. Yamada³, ¹*CROSS, Japan; ²University of Virginia, USA; ³Tohoku University, Japan*

QE16 Magnetic properties of the frustrated magnet Cu₅(PO₄)₃(OH)₄ on a peculiar spin network composed of pentagons and triangles

Hikomitsu Kikuchi¹, Nguyen Thi Tinh Y¹, Yutaka Fujii², Masashi Fujisawa³, Akira Matsuo⁴ and Koichi Kindo⁴, ¹*Department of Applied Physics, University of Fukui, Japan; ²Research Center for Development of Far-Infrared Region, University of Fukui, Japan; ³Research Center for Low Temperature Physics, Tokyo Tech, Japan; ⁴ISSP, The University of Tokyo, Japan*

QE17 Single crystal growth and magnetic properties of novel kagome compound KMn₃Ge₂O₉

Shigeo Hara* and Hirohiko Sato, *Department of Physics, Chuo-univ, Japan*

QE18 Specific heat study of geometrically frustrated magnet botallackite Cu₂(OH)₃Cl

Hiroki Morodomi¹, Yuji Inagaki¹, Tatsuya Kawae¹, Masato Hagihara² and X.g. Zhen², ¹*Department of Applied Quantum Physics, Kyushu University, Japan; ²Department of Physics, Saga University, Japan*

POSTER PRESENTATION**July 10 (Tue)****QE19 Order and excitations in the frustrated quantum spin ladder BiCu₂PO₆**

P. Merchant¹, S. Wang², O. Zaharko³, Ch. Niedermayer³, L. P. Regnault⁴, M. Boehm⁴, M. Kenzelmann² and Ch. Rueegg³, ¹*London Centre for Nanotechnology, University College London, United Kingdom; ²Laboratory for Developments and Methods, Paul Scherrer Institute, Switzerland; ³Laboratory for Neutron Scattering, Paul Scherrer Institute, Switzerland; ⁴Institut Laue-Langevin, France*

QE20 Melting of the spin ice state in Dy₂(Ti_{1-x}Zr_x)₂O₇ without dilution of rare-earth ion

Yuta Kodama, Kousuke Tsuruta, Daisuke Akahoshi and Toshiaki Saito*, *Department of Physics, Faculty of Science, Toho University, Funabashi City, Chiba 274-8510, Japan*

QE21 Unusual magnetic ordering of kagome lattice magnet [Cu₃(CO₃)₂(bpe)₃]•₂ClO₄

Hikomitsu Kikuchi¹, Hayato Nakata¹, Yutaka Fujii² and Toshifumi Taniguchi³, ¹*Department of Applied Physics, University of Fukui, Japan; ²Research Center for Development of Far-Infrared Region, University of Fukui, Japan; ³Graduate School of Science, Osaka University, Japan*

QE22 Field-induced staggered moments in the spin-gapped antiferromagnet on a deformed kagome lattice, Rb₂Cu₃SnF₁₂

Hiroshi Tashiro^{1*}, Masahide Nishiyama¹, Akira Oyamada¹, Tetsuaki Itou¹, Satoru Maegawa¹, Midori Yano², Toshio Ono³ and Hidekazu Tanaka², ¹*Graduate School of Human and Environmental Studies, Kyoto University, Japan; ²Department of Physics, Tokyo Institute of Technology, Japan; ³Department of Physical Science, Osaka Prefecture University, Japan*

QE23 Magnetic order in finite size domains of the honeycomb lattice compound InCu_{2/3}V_{1/3}O₃

E. Vavilova^{1*}, M. Yakovleva¹, M. Yehia², R. Klingeler³, V. Kataev², T. Taetz⁴, U. Loew⁵, A. Moeller⁶ and B. Buechner², ¹*Zavoisky Physical Technical Institute, RAS, Kazan, Russia; ²IFW Dresden, Dresden, Germany; ³Heidelberg University, Heidelberg, Germany; ⁴Institut fur Anorganische Chemie, Universitaat zu Koln, Germany; ⁵Technische Universitaat Dortmund, Germany; ⁶University of Houston, Department of Chemistry and Texas Center for Superconductivity, USA*

QE24 Z_2 vortices in frustrated background of cuprates

Maciej Fidrysiak and Paweł Rusek*, *Wrocław University of Technology, Poland*

QE25 First-principles study of S=1/2 Kagome antiferromagnet

Chung-yuan Ren*, *National Kaohsiung Normal University, Taiwan*

QE26 Exotic phases in the frustrated hexagonal lattice

Daniel C. Cabra*, *Physics Department, National University of La Plata, Argentina*

QE27 Light scattering in spin liquid systems

Dirk Wulferding^{1*}, Peter Lemmens¹, Vladimir Gnezdilov², Tianheng Han³, Young S. Lee³, Hiroyuki Yoshida⁴, Yoshihiko Okamoto⁵ and Olga Volkova⁶, ¹*IPKM, TU-BS, Braunschweig, Germany; ²ILTPE NAS, Ukraine; ³MIT, Massachusetts, USA; ⁴NIMS, Tsukuba, Japan; ⁵ISSP, Tokyo, Japan; ⁶MSU, Moscow, Russia*

QF: 1D, low-dimensional systems

July 10 (Tue), 13:30-15:30, Exhibition Hall 1 (1F)

Chairperson: C. Hotta (Kyoto Sangyo University, Japan)

QF01 Molecular nanomagnets as quantum simulators

Paolo Santini, *University of Parma, Italy*

QF02 ESR signature of the next-nearest-neighbor interactions in the S = 1/2 chain compound (6MAP)CuCl₃

M. Ozerov¹, A. A. Zvyagin², E. Cizmar³, F. Xiao⁴, C. P. Landee⁴, J. Wosnitza¹ and S. A. Zvyagin¹, ¹*Dresden High Magnetic Field Laboratory, Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany; ²Institut fur Festkorperphysik, Technische Universitat Dresden, Dresden, Germany; ³Centre of Low Temperature Physics, P.J. Safarik University, Kosice, Slovak; ⁴Department of Physics and Carlson School of Chemistry, Clark University, Worcester, Massachusetts, USA*

POSTER PRESENTATION**July 10 (Tue)****QF03 Electron spin resonance in the spin-ladder compound BPCB**

S. Zvyagin¹, E. Cizmar², M. Ozerov¹ and J. Wosnitza¹, ¹Dresden High Magnetic Field Laboratory (HLD) Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany; ²Centre of Low Temperature Physics, P.J. Safarik University, Kosice, Slovak

QF04 Non-magnetic impurity effect of S=1/2 spin ladder system (pipdH)₂Cu_{1-x}Zn_xBr₄

Chiori Yokoyama¹, Weimin Zhang², Takahiro Sakurai³, Susumu Okubo^{4*}, Hitoshi Ohta⁵, Eiichi Matsuoka⁶, Hitoshi Sugawara⁷ and Hikomitsu Kikuchi⁸, ¹Kobe University, Japan; ²Center for Collaborative Research and Technology Development, Kobe University, Japan; ³Center for Supports to Research and Education Activities, Kobe University, Japan; ⁴Molecular Photoscience Research Center, Kobe University, Japan; ⁵Molecular Photoscience Research, Kobe University, Japan; ⁶Graduate School of Science, Kobe University, Japan; ⁷Graduate School of Science, Kobe University, Japan; ⁸Department of Applied Physics, University of Fukui, Japan

QF05 (Moved to other session) High-field multi-frequency ESR in the S=2 Heisenberg antiferromagnetic chain compound MnCl₃(bpy)

Masayuki Hagiwara^{1*}, Shojiro Kimura², Yuichi Idutsu¹ and Zentaro Honda³, ¹KYOKUGEN, Osaka University, Japan; ²IMR, Tohoku University, Japan; ³Graduate School of Science and Engineering, Saitama University, Japan

QF06 High field magnetization of bimetallic chain with alternating ising and Heisenberg spins

Yibo Han¹, Jozef Strecka², Takanori Kida¹, Zentaro Honda³, Masami Ikeda¹ and Masayuki Hagiwara^{1*}, ¹KYOKUGEN, Osaka University, 1-3 Machikaneyama, Toyonaka, Osaka 560-8531, Japan; ²Department of Physics, Faculty of Science, P. J. Safarik University, Park Angelinum 9,040 01 Kosice, Slovakia; ³Department of Functional Materials Science, Graduate School of Science and Engineering, Saitama University, 255 Shimo-Okubo, Sakura-ku, Saitama 338-8570, Japan

QF07 Thermal conductivity and magnetic susceptibility of the 4-leg spin-ladder system (La_{1-x}Y_x)₂Cu₂O₅ and the 5-leg spin-ladder system (La_{1-x}Eu_x)₈Cu₇O₁₉

Takayuki Kawamata*, Takashi Noji and Yoji Koike, Department of Applied Physics, Tohoku University, Japan

QF08 Magnetic susceptibility of the quasi one-dimensional spin system Sr₂V₃O₉

Takayuki Kawamata*, Masanori Uesaka, Mitsuhide Sato and Yoji Koike, Department of Applied Physics, Tohoku University, Japan

QF09 Magnetic property of a single crystal of spin-1/2 triple-chain magnet Cu₃(OH)₄SO₄

Yutaka Fujii^{1*}, Yuya Ishikawa², Hikomitsu Kikuchi², Yasuo Narumi³, Hiroyuki Nojiri³, Shigeo Hara⁴ and Hirohiko Sato⁴, ¹Research Center for Development of Far-Infrared Region, University of Fukui, Japan; ²Department of Applied Physics, University of Fukui, Japan; ³Institute for Materials Research, Tohoku University, Japan; ⁴Department of Physics, Chuo University, Japan

QF10 Thermal conductivity due to magnons in high-quality single crystals of the two-leg spin ladder system (Ca,Sr,La)₁₄Cu₂₄O₄₁

Koki Naruse^{1*}, Takayuki Kawamata¹, Mitsuhide Sato¹, Masumi Ohno¹, Kazutaka Kudo², Norio Kobayashi³ and Yoji Koike¹, ¹Department of Applied Physics, Tohoku University, Japan; ²Department of Physics, Okayama University, Japan; ³Institute for Materials Research, Tohoku University, Japan

QF11 Magnetic property of Ni²⁺ antiferromagnetic perfect triangle cluster

Emika Takata^{1,2*}, Minoru Sanda¹, Katsutaka Kubo², Takayuki Asano², Akira Matsuo¹, Koichi Kindo¹ and Masaki Oshikawa¹, ¹Institute for Solid State Physics, University of Tokyo, Japan; ²Department of Physics, Kyushu University, Japan

POSTER PRESENTATION**July 10 (Tue)****QF12 Thermal conductivity of anisotropic spin ladder**

Hamed Rezania*, Razi University, Iran

QF13 The magnetic properties of the newly synthesized trinuclear copper complex

A. N. Ponomaryov^{1*}, K. Y. Choi¹, N. Kim², S. Yoon², B. J. Suh³ and Z. H. Jang⁴, ¹Department of Physics, Chung-Ang University, Seoul, Korea; ²Department of Chemistry, Kookmin University, Seoul, Korea; ³Department of Physics, The Catholic University of Korea, Bucheon, Korea; ⁴Department of Physics, Kookmin University, Seoul, Korea

QF14 Magnetization process of S=1/2 diamond chain compound Na₂Cu₃Ge₄O₁₂

Minoru Sanda^{1*}, Keisuke Matsuura¹, Takayuki Asano¹, Junfeng Wang², Akira Matsuo², Koichi Kindo², Hiroki Morodomi³, Yuji Inagaki³ and Tatsuya Kawai³, ¹Department of Physics, Kyushu University, Japan; ²Institute for Solid State Physics, University of Tokyo, Japan; ³Department of Applied Physics, Kyushu University, Japan

QF15 Quantum criticality in a frustrated ising chain columbite

Kazuhiro Igarashi, Yasuhiro Shimizu* and Masayuki Itoh, Nagoya University, Japan

QF16 Ligand-driven geometric and electronic structures of Fell spin-crossover molecules

Van Thanh Nguyen and Anh Tuan Nguyen*, Faculty of Physics, Hanoi University of Science, Viet Nam

QF17 Magnetic properties of S=1/2 zigzag antiferromagnetic chain compounds, VO(XO₄)(2,2'-bpy) (X=S, Mo; bpy = bipyridine)

Akira Matsuo^{1*}, Yuya Ishikawa², Yutaka Fujii³, Hikomitsu Kikuchi² and Koichi Kindo¹, ¹The Institute for Solid State Physics, The University of Tokyo, Japan; ²Department of Applied Physics, University of Fukui, Japan; ³Research Center for Development of Far-Infrared Region, University of Fukui, Japan

QF18 Inter-chain coupling and anisotropy in the frustrated chain cuprate Li₂CuO₂

W. E. A. Lorenz^{1*}, S.-I. Drechsler², R. O. Kuzian³, S. Petit⁴, Y. Skourk⁵, R. Klingeler⁶ and B. Buchner², ¹Neutron Scattering and Magnetism Group, Laboratory for Solid State Physics, ETH Zurich, Switzerland; ²Leibniz Institute for Solid State and Materials Research Dresden, Germany; ³Institute for Problems of Materials Science, Kiev, Ukraine; ⁴Laboratoire Leon Brillouin, Saclay, France; ⁵Dresden High Magnetic Field Laboratory, FZ-Dresden-Rossendorf, Dresden, Germany; ⁶Kirchhoff Institute for Physics, University of Heidelberg, Germany

QF19 Spectral signatures of magnetic Bloch oscillations in 1D ferromagnets

Sergey Shinkevich and Olav F. Syljuasen, Department of Physics, University of Oslo, Norway

QF20 Quasi-one-dimensional magnetic phase as a competing ground state in a frustrated magnet

Krunoslav Prsa¹, Mark Laver², Martin Mansson¹, Ivica Zivkovic³, Peter Derlet⁴, Sebastian Guerrero⁴, Christopher Mudry⁴, Oksana Zaharko², Sang-wook Cheong⁵, Hee-tae Yi⁵, Jorge Gavilano², Joachim Kohlbrecher², Michel Kenzelmann⁶ and Joel Mesot², ¹Laboratory for Solid State Physics, ETH Zurich, Switzerland; ²Laboratory for Neutron Scattering, Paul Scherrer Institute, Switzerland; ³Institute of Physics, Croatia; ⁴Condensed Matter Theory, Paul Scherrer Institute, Switzerland; ⁵Department of Physics and Astronomy, Rutgers University, USA; ⁶Laboratory for Developments and Methods, Paul Scherrer Institute, Switzerland

QF21 Crossover of magnetic relaxation from 2D-spin ice like state to ordered state in layered single molecular magnet networks

Yuta Kodama¹, Rikako Ishii², Chihiro Kachi-terajima², Hitoshi Miyasaka³, Daisuke Akahoshi¹ and Toshiaki Saito^{1*}, ¹Dept. of Phys., Fac. of Sci., Toho Univ., Funabashi, Chiba 274-8510, Japan; ²Dept. of Chem., Fac. of Sci., Toho Univ., Funabashi, Chiba 274-8510, Japan; ³Dept. of Chem., Div. of Mat. Sci., Grad. Sch. of Nat. Sci. and Tech., Kanazawa Univ., Ishikawa 920-1192, Japan

POSTER PRESENTATION

July 10 (Tue)

- QF22 Magnetic properties of the novel low-dimensional spin-1/2 magnet $\alpha\text{-Cu}_2\text{As}_2\text{O}_7$**
V. Kataev^{1*}, Y. C. Arango¹, E. Vavilova², M. Abdel - Hafiez¹, O. Janson³, A. Tsirlin³, H. Rosner³, S.-I. Drechsler¹, M. Weil⁴, G. Nenert⁵, R. Klingeler⁶, O. Volkova⁷, A. Vasiliev⁷ and B. Buechner¹, ¹Leibniz Institute for Solid State and Materials Research IFW Dresden, Germany; ²Zavoisky Physical Technical Institute of the Russian Academy of Sciences, 420029, Kazan, Russia; ³Max Planck Institute for Chemical Physics of Solids, D-01187 Dresden, Germany; ⁴Institute for Chemical Technologies and Analytics, Vienna University of Technology, A-1060 Vienna, Austria; ⁵Institut Laue-Langevin, Boite Postale 156, 38042 Grenoble Cedex 9, France; ⁶Kirchhoff Institute for Physics, University of Heidelberg, D-69120 Heidelberg, Germany; ⁷Low Temperature Physics Department, Moscow State University, Moscow 119991, Russia
- QF23 Low temperature magnetic properties of the dilutable frustrated spin-ladder $\text{Bi}(\text{Cu}_{1-x}\text{Zn}_x)_2\text{PO}_6$**
Shuang Wang¹, Krunoslav Prsa², Neda Nikseresht², Christian Ruegg³, E. Pomjakushina⁴, Kazimierz Conder⁴ and Henrik M Ronnow², ¹Laboratory for Quantum Magnetism/Laboratory for Developments and Methods, Ecole Polytechnique Federale de Lausanne, 1015 Lausanne Paul Scherrer Institut, 5232 Villigen, Switzerland; ²Laboratory for Quantum Magnetism, Ecole Polytechnique Federale de Lausanne, 1015 Lausanne, Switzerland; ³Laboratory for Neutron Scattering, Paul Scherrer Institut, 5232 Villigen, Switzerland; ⁴Laboratory for Developments and Methods, Paul Scherrer Institut, 5232 Villigen, Switzerland
- QF24 51V-NMR study of the quasi-one-dimensional antiferromagnet $\text{BaCo}_2\text{V}_2\text{O}_8$**
Yukiichi Ideta¹, Yu Kawasaki¹, Yutaka Kishimoto¹, Takashi Ohno¹, Yoshitaka Michihiro¹, Zhangzhen He², Yutaka Ueda³ and Mitsuru Itoh⁴, ¹Institute of Technology and Science, The University of Tokushima, Japan; ²Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, China; ³Institute for Solid State Physics, University of Tokyo, Japan; ⁴Materials and Structures Laboratory, Tokyo Institute of Technology, Japan
- QF25 Magnetic properties of one-dimensional chain of O_2 confined in nanospaces of MFI-zeolite**
Akihiro Hori¹, Kanako Kuwana², Tatsuo C Kobayashi², Yasushi Wanikawa³, Yoshiaki Kubota³, Kenichi Kato¹, Masaki Takata¹, Ryotaro Matsuda⁴ and Susumu Kitagawa¹, ¹RIKEN SPring-8 Center, Japan; ²Okayama University, Japan; ³Osaka Prefecture University, Japan; ⁴Exploratory Research for Advanced Technology (ERATO), Japan
- QF26 (Withdrawn) Quantum spin transport in a Heisenberg spin chain**
Nan-hong Kuo¹, Sujit Sarkar² and Chong Der Hu^{1*}, ¹Physics, National Taiwan University, Taiwan; ²PoornaPrajna Institute of Scientific Research, India

QG: Intermetallic compounds I

July 10 (Tue), 13:30-15:30, Exhibition Hall 1 (1F)

Chairperson: Sarah Dunsiger (Technical University of Munich, Germany)

- QG01 Magnetic transition of plastic deformed Si-doped Ni_3Mn alloy**
Kowan-young Ko^{1*}, Sung-won Ko² and John Graham Booth³, ¹Faculty of mechanical engineering, Ulsan College University, Korea, ²Department of biological science, Sungkyunkwan University, Korea, ³School of computing, science and engineering, Salford University, United Kingdom
- QG02 Incommensurate-commensurate phase transition in TbNi_5 induced by external magnetic field**
Elena Sherstobitova^{1*}, Alexander Pirogov¹, Vadim Sikolenko², Sawa Bogdanov¹ and Roland Schedler³, ¹Institute of Metal Physics of UD of RAS, Russia; ²Joint Institute for Nuclear Research, Dubna, Russia; ³Hahn-Meitner Institute, Berlin, Germany
- QG03 First-principles dynamical CPA study of ferro- and antiferromagnetism of transition metals**
Yoshiro Kakehashi* and Sumal Chandra, Department of Physics, University of the Ryukyus, Japan

POSTER PRESENTATION

July 10 (Tue)

- QG04 High-coercive metastable ferromagnetic state induced in the Ising antiferromagnet $\text{Fe}_{0.5}\text{TiS}_2$**
Nikolay Baranov^{1*}, Elizaveta Sherokalova², Alexey Volegov², Alexey Proshkin³, Nadezhda Selezneva², Andrey Gubkin⁴ and Ekaterina Proskurina², ¹Micromagnetic laboratory, Institute of Metal Physics, Russia; ²Institute of Natural Sciences, Ural Federal University, Russia; ³Laboratory of ferromagnetic alloys, Institute of Metal Physics, Russia; ⁴Laboratory of neutron studies of matter, Institute of Metal Physics, Russia
- QG05 Magnetic and thermoelectric properties of the solid solutions $\text{Mn}_{1-x}\text{Ni}_x\text{S}$**
Sergey Aplesnin¹, Oksana Romanova¹, Ludmila Ryabinkina¹, Olga Demidenko², Anatoly Galyas² and Kazimir Yanushkevich², ¹L.V. Kirensky Institute of Physics, Russia; ²Scientific-Practical Materials Research Centre NAS of Belarus, Belarus
- QG06 Field induced anisotropy in NiMn and NiMnPt alloys**
Yildirhan Oner, Department of Physics, Istanbul Technical University, Dept. of Physics, 34469, Istanbul, Turkey
- QG07 X-ray-absorption near-edge structure and X-ray magnetic circular dichroism studies of a $\text{Lu}_2\text{Fe}_{16.5}\text{Ru}_{0.5}$ single crystal**
E. A. Tereshina¹, A. Smekhova², O. Isnard³, A. V. Andreev⁴ and A. Rogalev⁵, ¹Institute of Physics, Academy of Sciences, 18221 Prague, Czech Republic; ²Faculty of Physics, Moscow State University, 119991 Moscow, Russia; ³Universite Joseph Fourier/Institut Neel (CNRS), 38042 Grenoble Cedex, France; ⁴Institute of Physics, Academy of Sciences, Czech Republic; ⁵European Synchrotron Radiation Facility (ESRF), 38043 Grenoble Cedex, France
- QG08 Study of the metamagnetic behavior of Ni-Co-Mn-Sb alloy in high magnetic fields**
Rie Y Umetsu^{1*}, Xiao Xu², Wataru Ito³, Takumi Kihara⁴, Masashi Tokunaga⁴, Kohki Takahashi¹ and Ryosuke Kainuma², ¹Institute for Materials Research, Tohoku University, Japan; ²Department of Materials Science, Graduate School of Engineering, Tohoku University, Japan; ³Department of Materials and Environmental Engineering, Sendai National College of Technology, Japan; ⁴International MegaGauss Science Laboratory, Institute for Solid State Physics, The University of Tokyo, Japan
- QG09 Magnetic Transition and Thermal Expansion in $\text{LaFe}_{13-x}\text{Co}_x\text{Si}_x$**
Jianli Wang¹, Stewart James Campbell^{2*}, Shane J Kennedy³, Precious Shamba⁴, Rong Zeng⁴, Shixue Dou⁴ and Guang Heng Wu⁵, ¹Institute for Superconducting & Electronic Materials, The university of Wollongong, Australia; ²School of PEMS, The University of New South Wales, Canberra, Australia; ³Bragg Institute, ANSTO, Australia; ⁴Institute for Superconductivity and Electronic Materials, The University of Wollongong, Australia; ⁵National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, China
- QG10 The magnetovolume effect of $\text{Y}_2\text{Fe}_{17-x}\text{Ga}_x$**
Daiki Haruna and Tatsuo Kamimori, Ehime University, Japan
- QG11 (Withdrawn) Pressure effect on the electrical resistivity of $\text{La}_{1.05}(\text{Fe}_{0.845}\text{Si}_{0.155})_{13}$ compound**
Makio Kurisu^{1*}, D. T. K. Anh² and Go Nakamoto³, ¹Department of Physics, Ehime University, Japan; ²School of Materials Science, Japan Advanced Institute of Science and Technology, Japan; ³School of Materials Science, Japan Advanced Institute of Science and Technology, Japan
- QG12 One- and two-magnon and exciton raman scattering in antiferromagnetic CoF₂: Experiment and theory**
Eric Meloche¹, Michael Cottam¹ and David Lockwood², ¹Department of Physics and Astronomy, University of Western Ontario, Canada; ²Institute for Microstructural Sciences, National Research Council, Canada
- QG13 Thermodynamic and transport properties of $\text{Ru}_{2-x}\text{Fe}_x\text{CrSi}$ ($1.3 \leq x \leq 1.8$)**
Masakazu Ito*, Toru Hisamatsu, Tsugumi Rokkaku, Iduru Shigeta and Masahiko Hiroi, Department of Physics and Astronomy, Graduate School of Science and Engineering, Kagoshima University, Japan

POSTER PRESENTATION**July 10 (Tue)**

- QG14 Magnetic structure and excitations of the one-dimensional quantum antiferromagnet RbCoCl₃,**
Mattia Mena^{1*}, Eva Hirtenlechner², Nora Haenni³, Simon Ward⁴, Karl Kraemer³, Christian Ruegg⁴ and Des McMorrow¹, ¹London Center for Nanotechnology, UCL, United Kingdom; ²Institut Laue-Langevin, France; ³University of Bern, Switzerland; ⁴Paul Scherrer Institut PSI, Switzerland
- QG15 Antiferromagnetic transition in Ru₂CrSi in magnetic fields**
Masahiko Hiroi^{1*}, Kaori Uchida¹, Iduru Shigeta¹, Masakazu Ito¹, Keiichi Koyama¹, Shojiro Kimura² and Kazuo Watanabe², ¹Department of Physics and Astronomy, Kagoshima University, Japan; ²Institute for Materials Research, Tohoku University, Japan
- QG16 Assessment of Curie temperature by magnetization vs. temperature (M-T) scans in a granular magnetic Cu-Fe-Ni alloy**
Sung Kang¹, Atsuki Takano², Dong-hae Lee², Mahoto Takeda^{2*}, Zenji Hiroi³ and Masaki Takeguchi⁴, ¹Research Institute of Industrial Science & Technology (RIST), Korea; ²Yokohama National University, Japan; ³University of Tokyo, Japan; ⁴National Institute for Materials Science (NIMS), Japan
- QG17 Design strategy for strongly coupled diradicals: systematic approaches of intramolecular magnetic interactions**
Kyoung Chul Ko, Daeheum Cho and Jin Yong Lee*, Department of Chemistry, SungKyunKwan University, Korea
- QG18 Single crystal growth and physical properties of metallic antiferromagnet (Mn,Fe)₃Si**
So Nara¹, Sun Chang Che¹, Haruhiro Hiraka², Kenji Ohoyama², Yasuo Yamaguchi², Hiroyuki Miki³ and Kazuyoshi Yamada⁴, ¹Dept. of Physics, Tohoku University, Japan; ²IMR, Tohoku University, Japan; ³IFS, Tohoku University, Japan; ⁴WPI, Tohoku University, Japan
- QG19 AC magnetic measurement of LiFeAs at pressures up to 5.2 GPa: Verification of the relation between Tc and structural parameters**
Shuhei Yamaguchi¹, Nobuhiro Yamaguchi¹, Masaki Mito¹, Hiroyuki Deguchi¹, Michael J. Pitcher², Peter J. Baker³, Stephen J. Blundell³, Dinah R. Parker² and Simon J. Clarke², ¹Fac. of Eng., Kyushu Inst. of Tech, Japan; ²Dep. of Chem., Univ. of Oxford, United Kingdom; ³Dep. of Phys., Univ. of Oxford, United Kingdom
- QG20 Fundamental magnetism of Fe-P alloys and Fe₃P compounds: a density functional study**
Won Seok Yun, Jee Yong Lee and In Gee Kim*, Graduate Institute of Ferrous Technology, POSTECH, Korea
- QG21 Analysis of spin-polaron formation in Hund lattices**
Yesenia Arredondo^{1*}, Emmanuel Vallejo², Oracio Navarro¹ and Michel Avignon³, ¹Instituto de Investigaciones en Materiales, Universidad Nacional Autonoma de Mexico, Mexico; ²Facultad de Ingenieria Mecanica y Electrica, Universidad Autonoma de Coahuila, Mexico; ³Institut Neel, CNRS and Universite Joseph Fourier, France
- QG22 Chiral magnetic orders in chiral helimagnet Cr_{1/3}NbS₂**
Yoshihiko Togawa^{1*}, Tsukasa Koyama², Shigeo Mori², Yusuke Kousaka³, Jun Akimitsu³, Sadafumi Nishihara⁴, Katsuya Inoue⁴, Alexander Sasha Ovchinnikov⁵ and Jun-ichiro Kishine⁶, ¹Nanoscience and Nanotechnology Research Center (N2RC), Osaka Prefecture University, Japan; ²Department of Materials Science, Osaka Prefecture University, Japan; ³Department of Physics, Aoyama Gakuin University, Japan; ⁴Department of Chemistry, Hiroshima University, Japan; ⁵Department of Physics, Ural Federal University, Russia; ⁶Graduate School of Arts and Sciences, The Open University of Japan, Japan
- QG23 ESR study of AFM - Ordering in the orthorhombic CuMnAs**
Yuriy Vladimirovich Goryunov^{1*} and Alexandr Nikolaevich Nateprov², ¹Russian Academy of Sciences, Kazan Physical-Technical Institute of the Russian Academy of Sciences, Russia; ²Academy of Sciences of Moldova, Institute of Applied Physics, Moldova

POSTER PRESENTATION**July 10 (Tue)**

- QG24 Elastic properties and stability of Heusler compounds**
S. C. Wu^{1*}, S. S. Naghavi, G. H. Fecher and C. Felser, Max Planck Inst. for Chem. Phys. of Solids; Inst. for Inorg. and Analy. Chem., Uni. Mainz, Germany
- QG25 Electronic and magnetic properties of ferromagnet/dilute-magnetic semiconductor interfaces**
Alessandra Continenza* and Gianni Profeta, Physics, Universita' degli studi dell'Aquila, Italy
- QG26 Mn-Sublattice of YbMn₂Si₂**
Stewart J Campbell^{1*}, Michael Hofmann², Richard A Mole³, Karel Prokes⁴, Jianli Wang⁵ and Dirk Wallacher⁶, ¹School of Physical, Environmental and Mathematical Sciences, ADFA, The University of New South Wales, Australia; ²Forschungsneutronenquelle Heinz Maier-Leibnitz (FRM II), Technische Universität München, Germany; ³Bragg Institute, ANSTO, Australia; ⁴Helmholtz Zentrum Berlin, Lise Meitner Campus, Germany; ⁵Institute for Superconducting & Electronic Materia, University of Wollongong, Australia; ⁶Helmholtz Zentrum Berlin, Lise Meitner Campus, Germany
- QG27 Electronic structures and magnetic properties of full and half Fe-Mn-Ga Heusler alloys**
Y. V. Kudryavtsev¹, N. V. Uvarov¹, J. Dubowik², I. N. Glavatckyy³, Y. J. Yoo⁴ and Y. P. Lee^{4*}, ¹G.V.Kurdumov Institute of Metal Physics NAS of Ukraine, Ukraine; ²Institute of Molecular Physics, PAS, Poland; ³Helmholtz Centre Berlin for Materials and Energy, Germany; ⁴Dept. of Physics, Hanyang University, Korea
- QG28 Microscopic analysis of magnetic orders in MnP single crystals**
Tsukasa Koyama¹, Shin-ichiro Yano², Yoshihiko Togawa³, Yusuke Kousaka², Shigeo Mori¹, Jun-ichiro Kishine⁴ and Jun Akimitsu², ¹Department of Materials Science, Osaka Prefecture University, Japan; ²Department of Physics, Aoyama Gakuin University, Japan; ³Nanoscience and Nanotechnology Research Center, Osaka Prefecture University, Japan; ⁴Graduate School of Arts and Sciences, The Open University of Japan, Japan
- QH: Intermetallic compounds II**
- July 10 (Tue), 13:30-15:30, Exhibition Hall 1 (1F)**
Chairperson: T. Onimaru (Hiroshima University, Japan)
- QH01 Structural and magnetic properties of Fe₂Mn_{0.5}Cu_{0.5}Al Nanocrystalline alloys**
Dwi Nanto¹, Dong-seok Yang², Suhk-kun Oh¹ and Seong-cho Yu^{1*}, ¹Dept. of Physics, BK 21 Physics Program and Dept. of Physics, Chungbuk National University, Cheongju, 361-763, Korea; ²Dept. of Physics Education, Physics Division, Chungbuk National University, Cheongju, 361-763, Korea
- QH02 Antiferromagnetic resonance in the one-dimensional magnet IPACu(Cl_{1-x}Br_x)₃ (x=0.83)**
Takahito Fujita¹, Masayuki Hagiwara¹ and Hirotaka Manaka², ¹KYOKUGEN, Osaka university, KYOKUGEN, Osaka university, 1-3 Machikaneyama, Toyonaka, Osaka 560-8531, Japan; ²Graduate School of Science and Engineering, Kagoshima University, Graduate School of Science and Engineering, Kagoshima University, 1-21-40 Korimoto, Kagoshima 890-00, Japan
- QH03 Magnetization steps in Yb₂Pt₂Pb with the Shastry-Sutherland lattice**
Yasuyuki Shimura^{1*}, Toshiro Sakakibara¹, Ken Iwakawa², Kiyohiro Sugiyama² and Yoshichika Onuki², ¹Institute for Solid State Physics, University of Tokyo, Kashiwa, Chiba 277-8581, Japan; ²Graduate School of Science, Osaka University, Toyonaka, Osaka 560-0043, Japan
- QH04 Mossbauer study on Fe (Si,Ge) alloys**
Yasushi Amako, Yusuke Taniguchi and Miho Nakashima, Faculty of Science, Shinshu University, Japan
- QH05 Ab initio and Monte Carlo investigations of the magnetic exchange and curie temperature of Ni₂Mn_{1+x}Sn_{1-x} alloys**
Vasiliy Buchelnikov^{1*}, Vladimir Sokolovskiy¹, Mikhail Zagrebin¹, Peter Entel² and Sergey Taskaev¹, ¹Chelyabinsk State University, Russia; ²University of Duisburg-Essen, Germany

POSTER PRESENTATION**July 10 (Tue)**

- QH06 Structural, magnetic, magnetocaloric and magneto-transport properties in Ge doped Ni-Mn-Sb Heusler Alloys**
A. K. Nigam¹, Roshnee Sahoo² and K. G. Suresh^{2*}, ¹Physics, TIFR, Mumbai, India; ²Physics, IIT Bombay, India
- QH07 Effect of doped Mn ions in thermoelectric material of Mg₃Sb,**
Soo Hyun Kim¹, Chung Man Kim¹, Junpei Kajino², Toshiro Takabatake² and Myung-hwa Jung^{1*}, ¹Physics, Sogang university, Korea; ²Physics, Hiroshima University, Japan
- QH08 X-ray diffraction study on crystal structure of Mn_{1.8}Co_{0.2}Sb under high magnetic fields**
Hiroki Orihashi^{1*}, Daisuke Mitsunaga¹, Masahiko Hiroi¹, Yoshifuru Mitsui², Kohki Takahashi², Kazuo Watanabe² and Keiichi Koyama¹, ¹Graduate School of Science Engineering, Kagoshima University, Japan; ²HFLSM, IMR, Tohoku University, Japan
- QH09 Emergence of ferromagnetism under pressure in (Mu_{1-x}Fe_x)₃GaN**
S. Iikubo^{1,6}, T. Inagaki², K. Takenaka², K. Matsubayashi³, Y. Uwatoko³, H. Takagi⁴, and H. Ohtani^{5,6}, ¹Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology, Japan; ²Department of Crystalline Materials Science, Nagoya University, Japan; ³Institute for Solid State Physics University of Tokyo, Japan; ⁴RIKEN (The Institute of Physical and Chemical Research) Japan; ⁵Department of Materials Science and Engineering, Kyushu Institute of Technology, Japan; ⁶JST, CREST, Japan
- QH10 First-principles-calculations of the magnetic anisotropy energy of FeCo and FeNi alloys**
Masanori Enoki¹, Satoshi Iikubo² and Hiroshi Ohtani³, ¹Graduate School of Engineering, Kyushu Institute of Technology, Japan Science and Technology CREST, Japan; ²Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology, Japan Science and Technology CREST, Japan; ³Department of Materials Science, Kyushu Institute of Technology, Japan Science and Technology, CREST, Japan
- QH11 Tuning the magnetic properties of amorphous FeZr thin by hydrogen implantation**
Atieh Zamani^{1*}, Anders Hall², Per Nordblad³, Bjorgvin Hjorvarsson¹ and Petra Jonsson¹, ¹Physics and Astronomy, Material Physics, Uppsala University, Sweden; ²School of Information and Communication Technology (ICT), KTH, Sweden; ³Department of Engineering Sciences, Uppsala University, Sweden
- QH12 Normal and intrinsic anomalous Hall effect in NbFe₂**
Sven Friedemann^{1*}, William J Duncan², Andreas Neubauer³, Manuel Brando⁴, Christian Pfleiderer³ and F Malte Grosche¹, ¹Cavendish Laboratory, University of Cambridge, United Kingdom; ²Department of Physics, Royal Holloway University of London, United Kingdom; ³Physik Department E21, Technical University Munich, Germany; ⁴Max Planck Institute for Chemical Physics of Solids, Dresden, Germany
- QH13 Magnetovolume effect in the itinerant-electron frustrated magnet Fe₃Mo₃N**
Yoshikazu Tabata^{1*}, Masaki Yamamoto¹, Shinsuke Terazawa¹, Takeshi Waki¹, Kenji Ishida² and Hiroyuki Nakamura¹, ¹Department of Materials Science and Engineering, Kyoto University, Japan; ²Department of Physics, Kyoto University, Japan
- QH14 NMR studies of magnetic properties in the spinel-type Cu(Cr_{1-x}Hf_x)₂S₄**
Haruo Niki^{1*}, Morihito Oshiro¹, Saori Nakamura¹, Ayaka Uechi¹, Mamoru Yogi¹, Shuji Ebisu² and Shoichi Nagata², ¹Department of Physics, Faculty of Science, University of the Ryukyus, Japan; ²Muroran Institute of Materials Research, Japan
- QH15 Relationship between microstructure and magnetic properties of nano-scale magnetic particles formed in a Cu-Ni-Co alloy**
Donghae Lee¹, Mahoto Takeda^{1*}, Sung Kang² and Takahiro Moriki¹, ¹Department of materials engineering, Yokohama national university, Japan; ²Research Institute of Industrial Science & Technology(RIST), Korea

POSTER PRESENTATION**July 10 (Tue)**

- QH16 Magnetic study of mechanically deformed FeAlSi alloys**
Estibaliz Legarra¹, Estibaliz Apinaniz², Damian Martin-rodriguez³, Jose Javier Garitaonandia⁴ and Fernando Plazaola¹, ¹Department of Electricity and Electronics, Basque Country University, UPV/EHU, p. c. 644, 48080, Bilbao, Spain; ²Department of Applied Physics I, Basque Country University, UPV/EHU, Alameda Urquijo s/n, 48013, Bilbao, Spain; ³Julich Centre for Neutron Science and Institute for Complex Systems, Forschungszentrum Julich GmbH, 52425 Julich, Germany; ⁴Department of Applied Physics II, Basque Country University, UPV/EHU, p. c. 644, 48080, Bilbao, Spain
- QH17 The propagation of electromagnetic waves in magnetic with ferromagnetic spiral**
Igor Valer'evich Bychkov¹, Vasily Dmitrievich Buchelnikov¹, Dmitry Aleksandrovich Kuzmin¹ and Vladimir Grigor'evich Shavrov², ¹Cheliabinsk State University, Russia; ²The Institute of Radioengineering and Electronics of RAS, Russia
- QH18 Magnetism of sigma-phase Fe-Mo and Fe-Re systems**
Jakub Cieslak^{1*}, Stanislaw M Dubiel¹, Michael Reissner² and Janusz Tobola¹, ¹Academy of Mining and Metallurgy, AGH al. Mickiewicza 30, 30-059 Krakow, Poland; ²Institute of Solid State Physics, Vienna University of Technology, A-1040 Wien, Austria
- QH19 Second order magnetization effects in bcc Fe**
Dominik Legut*, Jaroslav Hamrle and Jaromir Pistora, Nanotechnology Centre, VSB-Technical University of Ostrava, Czech Republic, Czech Republic
- QH20 Magnetic structure of nearly equiatomic MnRh alloy**
Yuki Matsuoka¹ and Aya Takasaki², ¹Nara Women's University, Japan; ²Graduate School of Humanities and Sciences, Nara Women's University, Japan
- QH21 Magnetic and transport properties of Pd₂Mn_{1+x}In_{1-x} Heusler alloys**
Hironari Okada^{1*}, Yohei Yamazaki², Takashi Yasuda¹ and Takeshi Kanomata¹, ¹Faculty of Engineering, Tohoku Gakuin University, Japan; ²Division of Engineering, Graduate School of Tohoku Gakuin University, Japan
- QH22 Structural and magnetic properties of (Co, Fe, Ni), (Fe, Mg, Zn) and (Fe, Mn, Zn) alloys deposited onto Al₂O₃ and SiO₂**
Londeche Jean Augustin Lodya^{1*}, Adli Beck², Rudelle White³, Bongani Xaba¹, Siyanda Lubhelwane¹, Khuselwa Vundisa¹ and Jeanette Ngubane¹, ¹Research & Development, Sasol Technology, South Africa; ²Chemistry Department, University of Stellenbosch, South Africa; ³Chemistry Department, North-West University, South Africa
- QH23 Structure disorder effect of L1₀ FePt within supercell method**
Kazuhiko Uebayashi, Section of Natural Science, Akita National College of Technology, Japan
- QH24 Itinerant antiferromagnetism in high-quality single crystal CrB₂**
Andreas Bauer^{1*}, Alexander Regnat¹, Christian Blum², Saskia Gottlieb-schoenmeyer¹, Bjoern Pedersen³, Sabine Wurmehl², Bernd Buechner² and Christian Pfleiderer¹, ¹Physik-Department E21, Technische Universitaet Muenchen, D-85748 Garching, Germany; ²Leibniz Institute for Solid State and Materials Research IFW, D-01171 Dresden, Germany; ³Forschungsneutronenquelle Heinz-Maier Leibniz, Technische Universitaet Muenchen, D-85748 Garching, Germany
- QH25 Magnetic orderings in Fe-intercalated TiX₂ (X=S, Se)**
Seung Ill Hyun and J.h. Shim*, Chemistry, POSTECH, Korea
- QH26 Non-stoner itinerant ferromagnetism of a transition metal monomer**
Hanhim Kang, Geunsik Lee, P. Dua, Ji-hoon Shim and Kwang S Kim*, Department of Chemistry, POSTECH, Korea

POSTER PRESENTATION**July 10 (Tue)**

- QH27 Magnetic structure variation with structural phase transition in SrMnSb₂**
M. Arshad Farhan, Geunsik Lee and Ji Hoon Shim*, *Chemistry, POSTECH, Korea*

- QH28 Magnetoresistance effect of Heusler-type Fe₂VAl single crystal**
Rika Hamada¹, Hidetoshi Miyazaki^{2*} and Yoichi Nishino¹, ¹*Department of Frontier Materials, Nagoya Institute of Technology, Japan; ²Center for Fostering Young and Innovative Researchers, Nagoya Institute of Technology, Japan*

- QH29 Electronic structures and magnetic properties of antiferromagnetic BaFe₂As₂**
Jae Kyung Chang, Ju Young Kim, Chang Hyun Yi and Joo Yull Rhee*, *Department of physics, Sungkyunkwan university, Korea*

QI: Lanthanides I

July 10 (Tue), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Vladimir Sechovsky (Charles University, Czech Republic)

- QI01 Development of magnetic order in the TbNi(Al,In) series and magnetocrystalline anisotropy in TbTX compounds**
Milan Klicpera^{1*}, Pavel Javorsky¹, Ines Puente Orench², Eva Santava³ and Stanislav Danis¹, ¹*Department of Condensed Matter Physics, Charles University in Prague, Faculty of Mathematics and Physics, Czech Republic; ²Institut Laue-Langevin, Grenoble, France; ³The Academy of Sciences of the Czech Republic, Czech Republic*

- QI02 Magnetic properties of Ho_{1-x}Lu_xB₁₂ solid solutions**
Slavomir Gabani¹, Emil Gazo¹, Gabriel Pristas¹, Marian Reiffers¹, Iveta Takacova¹, Natasha Shitsevalova², Konrad Siemensmeyer³, Nickolay Sluchanko⁴ and Karo Flachbart^{1*}, ¹*Institute of Experimental Physics of Slovak Academy of Sciences, Kosice, Slovakia; ²Institute for Problems of Materials Sciences, NASU, Kiev, Ukraine; ³Helmholtz Zentrum Berlin, Berlin, Germany; ⁴General Physics Institute, RAS, Moscow, Russia*

- QI03 High-field magnetization of Tm₂Fe₁₇ and its deuteride**
A. V. Andreev^{1*}, O. Isnard², M. D. Kuz'min³, Y. Skourski⁴, D. I. Gorbunov¹, J. Wosnitza⁴, N. V. Kudrevatykh⁵, A. Iwasa⁶, A. Kondo⁶, A. Matsuo⁶ and K. Kindo⁶, ¹*Institute of Physics ASCR, 18221 Prague, Czech Republic; ²Institut Neel CNRS and Universite Joseph Fourier, BP166X, Grenoble, France; ³IFW, 01171 Dresden, Germany; ⁴High Magnetic Field Laboratory, 01314 Dresden, Germany; ⁵Ural Federal University, 620083 Ekaterinburg, Russia; ⁶ISSP, Tokyo University, 277-8581 Kashiwa, Japan*

- QI04 RKKY interaction and magnetic properties in (Y-Gd)Ni compounds**
Kazuo Yano^{1*}, Katsuhiko Nishimura², Eiji Kita³, Tsuyoshi Ohta⁴ and Kiyoo Sato⁵, ¹*College of Science and Technology, Nihon University, Japan; ²Graduate School of Science and Engineering for Research, University of Toyama, Japan; ³Applied Physics, University of Tsukuba, Japan; ⁴Quatum Design Japan; ⁵Faculty of Engineering, Yokohama National University, Japan*

- QI05 Magnitization curves in high magnetic fields of TbZn₂**
Yoshiya Adachi¹, Tetsuo Kitai², Keiichi Koyama³, Hajime Yoshida⁴ and Takejiro Kaneko⁴, ¹*Graduate School of Science and Engineering, Yamagata University, Japan; ²Faculty of Engineering, Kyushu Institute of Technology, Japan; ³Graduate School of Science and Engineering, Kagoshima University, Japan; ⁴IMR, Tohoku University, Japan*

- QI06 Deuteration induced ferromagnetic metallic properties in R_xRh₃Dx (R = Tb, Dy)**
Koji Shimomura^{1*}, Takanori Tsutaoka¹ and Stanislaw M. Filipczk², ¹*Graduate School of Education, Hiroshima University, Japan; ²Institute of Physical Chemistry, Polish Academy of Sciences, Poland*

POSTER PRESENTATION**July 10 (Tue)**

- QI07 Magnetic properties of Nd₂Pd₃ single crystal**
Takuya Matsushita, Koji Shimomura and Takanori Tsutaoka*, *Graduate School of Education, Hiroshima University, Japan*

- QI08 Giant magnetoresistance and field-induced phase transitions in Tb_xRh₃ single crystal**
Takanori Tsutaoka^{1*}, Koji Shimomura¹, Nikolay V. Baranov², Alexey V. Proshkin², Evgeny G. Gerasimov³ and Pavel B. Terentev³, ¹*Graduate School of Education, Hiroshima University, Japan; ²Institute of Natural Sciences, Ural Federal University, Russia; ³Institute of Metal Physics, Ural Branch of RAS, Russia*

- QI09 Magnetic properties of a GdFe₅Al₃ single crystal**
D. I. Gorbunov^{1*}, A. V. Andreev¹ and M. D. Kuz'min², ¹*Institute of Physics ASCR, 18221 Prague, Czech Republic; ²IFW, 01171 Dresden, Germany*

- QI10 Study of multipole ordering in CePd₃S₄ by resonant X-ray diffraction with full polarization analysis**
Sinji Michimura^{1*}, Toshiya Inami¹, Toru Otsubo², Takeshi Matsumura², Hiroshi Tanida², Masafumi Sera², Eiichi Matsuoka³, Masanori Watahiki⁴, Katsumi Tanigaki⁴ and Hideya Onodera⁴, ¹*Condensed Matter Science Division, Japan Atomic Energy Agency, Japan; ²AdSM, Hiroshima University, Japan; ³Department of Physics, Kobe University, Japan; ⁴Department of Physics, Tohoku University, Japan*

- QI11 Effect of temperature and magnetic field history on magnetization behavior of NdVO₃ polycrystalline**
Zhengcai Xia*, *Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology, China*

- QI12 Phase diagram and transport properties of Y_{1-x}NdxCo₂ pseudo-binary alloys**
Alexander T Burkov¹, Masataka Takeda², Ai Nakamura², Yoshinao Takaesu², Kiyoharu Uchima³, Masato Hedo², Takao Nakama^{2*}, Katsuma Yagasaki² and Yoshiya Uwatoko⁴, ¹*A. F. Ioffe Physical-Technical Institute, Russian Academy of Sciences, Russia; ²Department of Physics and Earth Sciences, Faculty of Science, University of the Ryukyus, Japan; ³General Education, Okinawa Christian Junior College, Japan; ⁴Institute for Solid State Physics, University of Tokyo, Japan*

- QI13 Effect of partial magnetic order on resistivity and thermopower of Ho(Co_{1-x}Al)₂ alloys**
Takao Nakama^{1*}, Chojun Zukeran¹, Ai Nakamura¹, Atsushi Teruya¹, Sentaro Hirakawa¹, Shintaro Watanabe¹, Masataka Takeda¹, Yoshinao Takaesu¹, Kiyoharu Uchima², Masato Hedo¹, Katsuma Yagasaki¹ and Alexander T Burkov³, ¹*Department of Physics and Earth Sciences, Faculty of Science, University of the Ryukyus, Japan; ²General Education, Okinawa Christian Junior College, Japan; ³A. F. Ioffe Physical-Technical Institute, Russian Academy of Sciences, Russia*

- QI14 Breakdown of Hund's third rule for intrinsic magnetic moments**
Julia Herrero-albillos^{1*}, Fernando Bartolome², Luis Miguel Garcia² and A. T. Young³, ¹CUD, Centro Universitario de la Defensa, Ctra. de Huesca s/n, E-50090 Zaragoza, Spain; ²ICMA, ICMA and Dpto. de Fisica de la Mat. Cond. CSIC - Universidad de Zaragoza, Pedro Cerbuna 12, Spain; ³Advanced Light Source, Lawrence Berkeley National Laboratory, University of California Berkeley, CA, USA

- QI15 Magnetic properties of Y substituted TbB₄**
Boyoung Kang¹, Sungsu Lee¹, Juyoung Kim² and B. K. Cho^{1*}, ¹*School of Materials Science & Engineering, Gwangju Institute of Science and Technology, Korea; ²Advanced metallic materials research department, Research Institute of Industrial Science & Technology, Korea*

- QI16 High pressure effects on antiferroquadrupolar orders in RB₂C₂ (R = Dy and Ho)**
Hiroki Yamauchi^{1*}, Toyotaka Osakabe¹, Masashi Kosaka², Eiichi Matsuoka³ and Hideya Onodera⁴, ¹*Quantum Beam Science Directorate, Japan Atomic Energy Agency, Japan; ²Graduate School of Science and Engineering, Saitama University, Japan; ³Department of Physics, Graduate School of Science, Kobe University, Japan; ⁴Department of Physics, Graduate School of Science, Tohoku University, Japan*

POSTER PRESENTATION**July 10 (Tue)****QI17 Antiferromagnetism of TbPd₂Ge₂ Single Crystals**

Takahiro Hasegawa^{1*}, Fujiwara Tetsuya¹, Matsubayashi Kazuyuki², Uwatoko Yoshiya² and Shigeoka Toru¹,
¹*Grad. Sch. Sci. and Eng. Yamaguchi Univ., Japan;* ²*ISSP. Univ. Tokyo., Japan*

QI18 Multi-step metamagnetic processes in PrPd₂Si₂ single crystal

Toru Shigeoka^{1*}, Tetsuya Fujiwara¹, Kazuyuki Matsubayashi², Yoshiya Uwatoko², Shoji Kimura³ and Kazuo Watanabe³, ¹*Yamaguchi University, Japan;* ²*ISSP, University of Tokyo, Japan;* ³*IMR, Tohoku University, Japan*

QI19 Anisotropic properties of Tb₂Pd₂In single crystal

Silvie Maskova¹, Ladislav Havela¹, Alexander Kolomiets², Alexander V. Andreev³ and Pavel Svoboda^{1*},
¹*Department of Condensed Matter Physics, Charles University, Czech Republic;* ²*Department of Physics, Lviv Polytechnic National University, Ukraine;* ³*Institute of Physics, ASCR, Czech Republic*

QJ: Lanthanides II**July 10 (Tue), 13:30~15:30, Exhibition Hall 1 (1F)**

Chairperson: Collin Broholm (Johns Hopkins University, USA)

QJ01 Successive magnetic transitions of PrRh₂Ge₂ single crystal

Okawara Yuu^{1*}, Cui Jingwei¹, Fujiwara Tetsuya¹, Matsubayashi Kazuyuki², Uwatoko Yoshiya², Kimura Shoji³, Watanabe Kazuo³ and Shigeoka Toru¹, ¹*Grad. Sch. Sci. and Eng. Yamaguchi Univ., Japan;* ²*ISSP. Univ. Tokyo., Japan;* ³*IMR. Tohoku Univ., Japan*

QJ02 Phase diagram of the magnetically frustrated system SmPd₂Al₃ studied by neutron diffraction

Jiri Pospisil^{1*}, Gwilherm Nenert², Hideaki Kitazawa³, Martin Divis¹, Jan Prokleska¹ and Vladimir Sechovsky¹,
¹*DCMP, Charles University, Ke Karlovu 5, 121 16, Prague, Czech Republic;* ²*Institut Laue Langevin, 6 rue Jules Horowitz, BP 156, F-38042 Grenoble Cedex 9, France;* ³*National Institute for Materials Science, Tsukuba, Ibaraki 305-0047, Japan*

QJ03 Interplay of rare-earth and iron sublattices in NdFeAsO

Gwendolyne Pascua¹, Hubertus Luetkens¹, Yurii G. Pashkevich², Hemke Maeter³ and Hans-henning Klauss³,
¹*Laboratory for Muon Spin Spectroscopy, Paul Scherrer Institute, CH-5232 Villigen PSI, Switzerland;* ²*A.A. Galkin Donetsk Phystek, NASU, 83114 Donetsk, Ukraine;* ³*Institut fur Festkorperphysik, TU Dresden, DE-01069 Dresden, Germany*

QJ04 Magnetic properties of C15 laves phase compound SmRu₂

Yusuke Amakai^{*}, Mototsugu Sato, Naoki Momono, Hideaki Takano and Shigeyuki Murayama, *Graduate School of Engineering, Muroran Institute of Technology, Japan*

QJ05 Pressure effect on the electrical resistivity of a ferromagnetic clathrate Eu₈Ga₁₆Ge₃₀

T Izuka¹, K Umeo^{2*}, M A Avila³ and T Takabatake¹, ¹*AdSM, Hiroshima Univ., Kagamiyama 1-3-1, Higashi-Hiroshima 739-8530, Japan;* ²*N-BARD, Hiroshima Univ., Kagamiyama 1-3-1, Higashi-Hiroshima 739-8526, Japan;* ³*Federal University of ABC, Santo Andre, SP, 09210-170, Brazil*

QJ06 Magnetic transitions under pressure in GdCo₂B₂

Guanghui Hu^{1*}, Izuru Umehara¹, Lingwei Li² and Katsuhiko Nishimura³, ¹*Department of Physics, Yokohama National University, Japan;* ²*Institute of Materials Physics, Hangzhou Dianzi University, China;* ³*Graduate School of Science and Engineering, University of Toyama, Japan*

QJ07 New ferromagnetic compounds with noncentrosymmetric crystal structures

Yoshihiko Inada^{1*}, Guizhi Bao² and Akiko Ono¹, ¹*Graduate School of Education, Okayama University, Japan;* ²*Department of Physics, Okayama University, Japan*

POSTER PRESENTATION**July 10 (Tue)****QJ08 Singlet-triplet crossover in the two-dimensional dimer spin system YbAl₃C₃**

Shunichiro Kittaka^{1*}, Tomoyoshi Sugiyama¹, Yasuyuki Shimura¹, Toshiro Sakakibara¹, Saori Matsuda² and Akira Ochiai², ¹*Institute for Solid State Physics, University of Tokyo, Japan;* ²*Department of Physics, Tohoku University, Japan*

QJ09 Magnetic structure transition in PrPd₃

Hiroyuki S. Suzuki^{1*}, Noriki Terada¹, Akiko Kikkawa¹, Koji Kaneko² and Naoto Metoki², ¹*National Institute for Materials Science, Japan;* ²*Japan Atomic Energy Agency, Japan*

QJ10 Competition between magnetic ordering and random spin freezing in Dy₂PtSi₃

D. X. Li^{1*}, T. Yamamura¹, S. Nimori² and T. Shikama¹, ¹*Institute for Materials Research, Tohoku University, Japan;* ²*Tsukuba Magnet Laboratory, National Research Institute for Metals, Japan*

QJ11 Dilatometric investigations on the semimetallic ferromagnet EuB₆

Rudra Sekhar Manna¹, Frank Schnelle¹, Mariano De Souza¹, Michael Lang¹, Pintu Das¹, Adham Amyan¹, Jens Mueller¹, Stephan Von Molnar², Peng Xiong² and Zachary Fisk³, ¹*Physics Institute, Goethe-University Frankfurt (M), SFB/TR 49, D-60438 Frankfurt (M), Germany;* ²*Department of Physics, Florida State University, Tallahassee, Florida 32306, USA;* ³*Department of Physics, University of California, Irvine, California 92697, USA*

QJ12 The magnetic anisotropy and magnetostriction of RAl₂ (R=rare earth) compounds

Masashi Ohashi, Yusuke Araki and Kazuma Sawami, *Kanazawa University, Japan*

QJ13 Influence of weak-magnetic, non-magnetic and disoriented grains on remagnetization processes of Nd-Fe-B alloys

Anna Starikova*, Alexey Lileev and Olga Arinicheva, *National University of Science and Technology 'MISIS' (MISIS), Russia*

QJ14 Cobalt magnetism in HoCo₂ under pressure

Jaroslav Valenta, Jiri Prchal*, Marie Kratochvilova, Martin Misek and Vladimir Sechovsky, *Department of Condensed Matter Physics, Charles University in Prague, Czech Republic*

QJ15 High-field magnetization study of ErCo₂

Maurice Guillot¹ and Yildirhan Oner^{2*}, ¹*Grenoble High Magnetic Field Laboratory, CNRS, BP166, 38042 Grenoble Cedex 9, France;* ²*Department of Physics, Istanbul Technical University, Turkey*

QJ16 Resonance, magnetic and neutron investigations of magnetic structures in Pr_{1-x}Y_xFe₃(BO₃)₄ system

A Pankrats¹, V Tugarinov^{1*}, C Ritter², D Velikanov¹, I Gudim¹ and V Temerov¹, ¹*Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russia;* ²*Institute Laue-Langevin, Grenoble, France*

QJ17 Anisotropic transport and magnetic properties of PrGe single crystal

Pranab Kumar Das, Neeraj Goyal, Ruta Kulkarni, Arumugam Thamizhavel and Sudesh Kumar Dhar, *Department of Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research, Mumbai, India*

QJ18 Theoretical investigation of the phase transition and the spin-gap behavior of the triangular antiferromagnet YbAl₃C₃

Changhoon Lee^{1*}, Myung-hwan Whangbo², Juergen Koehler³ and Ji-hoon Shim¹, ¹*Chemistry, Postech, Korea;* ²*Chemistry, North Carolina State University, USA;* ³*MPI for Solid State Research, Stuttgart, Germany*

QJ19 First Principle Analysis for Magnetism & Pressure effects on CDW Phase in SmNiC₂

Jae Nyeong Kim and Ji-hoon Shim*, *Chemistry, POSTECH, Korea*

QK: Spin-dependent transport II

July 10 (Tue), 13:30~15:30, Exhibition Hall 1 (1F)

Chairpersons: H. Adachi (Japan Atomic Energy Agency, Japan)

M. Bibes (Unité Mixte de Physique CNRS/Thales, France)

QK01 The magnetoresistance of sandwich-structure organic spin-valveFeng Li*, Fapei Zhang and Yu Xiao, *High Magnetic Field Laboratory, Chinese Academy of Science, China***QK02 First-principles calculations investigation of interfacial roles in spin-dependent transport properties in OMTJs**Shiheng Liang¹, Dongping Liu¹, Lingling Tao¹, Hong Guo² and Xufeng Han^{1*}, ¹*Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, China;* ²*Department of Physics and Center for the Physics of Materials, McGill University, Montreal, Quebec, Canada***QK03 GMR properties on flexible polymer film with bending stress**Joonhyun Kwon, Seungha Yoon, Seungkyo Lee, Jeonghyeon Lee and B. K. Cho*, *School of Materials Science and Engineering, Gwangju Institute of Science and Technology (GIST), Korea***QK04 Giant magnetoresistance in graphene nanoribbons: Geometry, interface and dephasing effects**Stefan Krompiewski*, *Institute of Molecular Physics, Polish Academy of Sciences, Poznan, Poland***QK05 Negative magnetoresistance in ferromagnet/semiconductor/ferromagnet structures with cubic dresselhaus spin-orbit-interaction**Kenji Kondo*, *Laboratory of Quantum Electronics, Research Institute for Electronic Science, Japan***QK06 Spin valve effect of NiFe/graphene/NiFe junctions**Muhammad Zahir Iqbal, Muhammad Waqas Iqbal and Jonghwa Eom*, *Department of Physics & Graphene Research Institute, Sejong University, Korea***QK07 Giant magnetoimpedance and photoinduced magnetoresistance effects in ferromagnet/SiO₂/p-Si hybrid structures**N. V. Volkov*, A. S. Tarasov, E. V. Eremin, A. V. Eremin, S. N. Varnakov and S. G. Ovchinnikov, *L.V. Kirensky Institute of Physics SB RAS, Russia***QK08 Charge imbalance with the same decaying length as spin accumulation**Yao-hui Zhu*, *Physics Department, Beijing Technology and Business University, China***QK09 Simulation of spin-dependent transport in GaAs: Effect of electron-electron interactions**Matthew Hodgson, Gionni Marchetti, Roy W. Chantrell and Irene D'amico, *Physics, University of York, United Kingdom***QK10 Electrical detection of spin-polarized current in InAs quantum point contacts**Taeyueb Kim^{1,2}, Sungjung Joo¹, Jinki Hong^{1*}, Kungwon Rhie¹, Hyuncheol Koo^{2*}, Jindong Song³, Joonyeon Chang², Sukhee Han², Kyungho Shin², ¹*Department of Applied Physics, Korea University, Chochiwon, Korea;* ²*Spin device research center, Korea Institute of Science and Technology, Seoul 136-791, Korea;* ³*Nano Photonics research center, Korea Institute of Science and Technology, Seoul 136-791, Korea***QK11 Gate dependence of spin-orbit interaction in a two-dimensional hole gas structure**Youn Ho Park¹, Hyun Cheol Koo^{1*}, Sang-hoon Shin¹, Jin Dong Song¹, Hyung-jun Kim¹, Joonyeon Chang¹, Suk Hee Han¹ and Heon-jin Choi², ¹*Spin Device Research Center, Korea Institute of Science and Technology, Korea;* ²*Department of Materials Science and Engineering, Yonsei University, Korea***QK12 Perpendicular spin transport in ferromagnet/MgO/GaAs structures**Joohyung Bae¹, Kyung-ho Kim¹, Hyun Cheol Koo^{1*}, Hyung-jun Kim¹, Joonyeon Chang¹, Suk Hee Han¹ and Sang Ho Lim², ¹*Spin Device Research Center, Korea Institute of Science and Technology, Korea;* ²*Department of Materials Science and Engineering, Korea University, Korea***QK13 Spin hall effect in 2DEG in the presence of Rashba spin-orbit interation**Won Young Choi, Hyung-jun Kim, Joonyeon Chang, Suk Hee Han and Hyun Cheol Koo*, *Korea Institute of science and technology, Korea***QK14 Spin transport and spin injection into turbostratic graphene**June Seo Kim¹, Sebastian Schweitzer², Ajit K Patra², Yenny Hernandez³, Klaus Muellen³, Xinliang Feng³ and Mathias Klaeui^{1*}, ¹*Institut fuer Physik, Johannes Gutenberg-Universitaet Mainz, Germany;* ²*Fachbereich Physik, Universitaet Konstanz, Germany;* ³*Max Planck Institute for Polymer Research, Germany***QK15 Spin signal in metallic lateral spin valves made by a shadow evaporation technique**Piotr Laczkowski, Laurent Vila, Williams Savero-torres, Van Dai Nguyen, Juan Carlos Rojas-sanchez, Murat Cubukcu, Alain Marty, Lucien Notin, Cyrille Beigne and Jean-philippe Attane, *Universite Joseph Fourier, BP 53, 38041, Grenoble and INAC/ CEA Grenoble, France***QK16 Hanle effect with in-plane magnetic fields in metallic lateral spin valves**Juan-carlos Rojas Sanchez, Laurent Vila, Matthieu Jamet, Piotr Laczkowski, Murat Cubukcu, Williams Savero-torres, Van Dai Nguyen, Alain Marty, Cyrille Beigne and Jean-philippe Attane, *Universite Joseph Fourier, BP 53, 38041, Grenoble and INAC/ CEA Grenoble, France***QK17 Detecting the magnetization switching of a ferromagnetic dot using non local spin injection by means of lateral spin valve structures**Williams Savero-torres, Laurent Vila, Alain Marty, Piotr Laczkowski, Van Dai Nguyen, Murat Cubukcu, Juan-carlos Rojas Sanchez, Lucien Notin and Jean-philippe Attane, *Universite Joseph Fourier, BP 53, 38041, Grenoble and INAC/ CEA Grenoble, France***QK18 Perfect spin filter and highly spin-polarized current induced by fano antiresonance effect in the multiple-quantum-dot nanodevices**Hua-hua Fu¹, Kai-lun Yao^{2*} and Zu-li Liu², ¹*Department of Physics, Huazhong University of Science and Technology, Wuhan 430074, China;* ²*Physics Department, Huazhong University of Science and Technology, Wuhan 430074, China***QK19 Transmission of spin polarized photoelectrons across ferromagnet/semiconductor interfaces using oblique Hanle effect**Yasuhiro Shirahata¹, Toshiyuki Isozaki¹, Ippei Suzuki¹, Eiji Wada¹, Mitsuru Itoh¹, Masahito Yamaguchi² and Tomoyasu Taniyama¹, ¹*Materials and Structures Laboratory, Tokyo Institute of Technology, Japan;* ²*Department of Electrical Engineering and Computer Science, Nagoya University, Japan***QK20 Electric field tunning and spin coulomb drag in spin field effect transistors (spin-FETs)**George Alexandru Nemnes, Lucian Ion and Stefan Antohe, *University of Bucharest, Faculty of Physics, Romania***QK21 The Rashba-type Spin splitting in Pb monolayer on Si and Ge surfaces: a first-principles study**Hyungjun Lee and Hyoung Joon Choi*, *Department of physics, Yonsei University, Korea***QK22 Geometry effect on quasi-twodimensional electron system**Kuo-chin Chen, Hsin-han Lee and Ching-ray Chang*, *National Taiwan University, Taiwan***QK23 Electrical measurement of spin accumulation and transport in Fe/AlGaAs heterostructures**Joon-il Kim^{1*}, Jennifer Misuraca¹, Kangkang Meng², Jun Lu², Lin Chen², Jianhua Zhao², Stephan Von Molnar¹ and Peng Xiong¹, ¹*Physics, Department of Physics, Florida State University, Tallahassee, Florida, USA;* ²*Physics, Institute of Semiconductors, Chinese Academy of Sciences, Beijing, China*

- QK24 Pure spin current injection into a Gd wire
Seiji Nonoguchi, Tatsuya Nomura and Takashi Kimura*, *Kyushu University, Japan*

QL: Diluted magnetic semiconductors and others

July 10 (Tue), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: M. Kohda (Tohoku University, Japan)

- QL01 Synthesis and characterization of $\text{Ba}_3\text{Co}_2\text{Fe}_{24}\text{O}_{41}$ by the proteic sol-gel process
Bruna Andrade, Petrucio Silva and Marcelo Macedo*, *Physics, Federal University of Sergipe, Brazil*
- QL02 Ferromagnetism in vanadium doped ZnO thin films grown by pulsed laser deposition
Shumaila Karamat^{1*}, Rajdeep Singh Rawat², Paul Lee³, Tan Lee Augustine⁴, Raju V Ramanujan⁵ and H.d Sun⁶, ¹*Physics, NIE, Nanyang Technological University, Singapore 2. COMSATS, Islamabad, Pakistan*; ²*Physics, National Institute of Education, Nanyang Technological University, Singapore*; ³*Physics, NIE-NTU, Singapore*; ⁴*Physics, NIE-NTU Singapore*; ⁵*Material Science, MSE-NTU Singapore*; ⁶*SPMS, SPMS-NTU, Singapore*
- QL03 The magnetic and dielectric properties of multiferroic $\text{Bi}_{1-x}\text{Gd}_x\text{FeO}_3$
Takuya Yanoh*, Naoki Sakai, Liming Zhu, Akinobu Kurokawa, Hiromasa Takeuchi, Shinya Yano, Kazuki Onuma, Takaya Kondo, Kazunari Miike, Toshiki Miyasaka and Yuko Ichianagi, *Physics, Yokohama National University, Japan*
- QL04 Double-exchange interaction in heavily Mn-doped CuO thin films
Li Li, Bin Lv, Shen Wang, Jinzhu Cai, Wenqin Zou, Fengming Zhang* and Xiaoshan Wu, *Physics, Nanjing University, China*
- QL05 Magnetic properties of Cu-doped GaN films grown by MBE
Philipp R. Ganz¹, Christoph Suergers^{2*}, Gerda Fischer³ and Daniel M. Schaad⁴, ¹*Institut fur Angewandte Physik and DFG-Center for Functional Nanostructures, Karlsruhe Institute of Technology (KIT), Germany*; ²*Physikalisches Institut and DFG Center for Functional Nanostructures, Karlsruhe Institute of Technology (KIT), Germany*; ³*Physikalisches Institut, Karlsruhe Institute of Technology (KIT), Germany*; ⁴*Institute for Energy Research and Physical Technologies, Clausthal University of Technology, Germany*
- QL06 Magnetism and electronic transport of MnAs single nanostructures
Federico Fernandez Baldis¹, Marina Tortarolo², Martin Sirena¹, Laura Steren³, Victor Etgens² and Mahmoud Eddrief², ¹*Centro Atomico Bariloche, Argentina*; ²*Institut des NanoSciences de Paris, France*; ³*Centro Atomico Constituyentes, Argentina*
- QL07 The generated antiferromagnetic and ferromagnetic states in nanocrystalline Cu-Cu₂O system and the consequences for spin chemistry
Anatoly Yermakov^{1*}, Michael Uimin¹, Alexandre Korolyov¹, Ilya Byzov¹, Alexey Mysik¹, Vladislav Maikov¹ and Mamoru Senna², ¹*Institute of Metal Physics, Ural Branch of RAS, Russia*; ²*Faculty of Science and Technology, Keio University, Japan*
- QL08 Unidirectional anisotropy observed in Fe film grown on GaAs at low temperature
Seonghoon Choi¹, Taehee Yoo¹, S. Khym¹, Sanghoon Lee^{1*}, X. Liu² and J. K. Furdyna², ¹*Physics Department, Korea University, Korea*; ²*Physics Department, University of Notre Dame, USA*
- QL09 Magnetic properties of hydrothermally synthesized ZnO nanostructures
H Hadiyawarman, Kadek J. Parwanta, Bowha Lee and Chunli Liu*, *Department of Physics, Hankuk University of Foreign Studies, Korea*
- QL10 Electrical, magnetic and magnetoimpedance studies of LSMO thin film prepared by sol gel method
Pawan Kumar and Ramanathan Mahendiran, *Physics, NUS, Singapore*

- QL11 Differential conductance measurements in Ni nanoscale contact fabricated by electromigration
Junya Sakai^{1*}, Koichiro lenaga¹, Yuji Inagaki¹, Hiroyuki Tsujii², Ryuya Nomura³, Seiji Nonoguchi³, Takashi Kimura⁴ and Tatsuya Kawae⁵, ¹*Department of Applied Quantum Physics, Kyushu University, Japan*; ²*Faculty of Education, Kanazawa University, Japan*; ³*INAMORI Frontier Research Center, Kyushu University, Japan*; ⁴*INAMORI Frontier Research Center, Kyushu University, Japan*; ⁵*Department of Applied Quantum Physics, Kyushu University, Japan*
- QL12 (Withdrawn) Magnetoresistance measurements in Pd atomic-scale contact at 4.2K
Koichiro lenaga^{1*}, Naoya Nakashima¹, Yuji Inagaki¹, Hiroyuki Tsujii² and Tatsuya Kawae¹, ¹*Department of Applied Quantum Physics, Kyushu University, Japan*; ²*Faculty of Education, Kanazawa University, Japan*
- QL13 (Withdrawn) Differential conductance measurements in Cu-Mn atomic-scale contacts
Koichiro lenaga¹, Naoya Nakashima¹, Yuji Inagaki¹, Hiroyuki Tsujii² and Tatsuya Kawae^{1*}, ¹*Department of Applied Quantum Physics, Kyushu University, Japan*; ²*Faculty of Education, Kanazawa University, Japan*
- QL14 Tuning the magnetic interaction in carbon nanotube/NiO nanocomposite system
S Chattopadhyay, S Giri and S Majumdar*, *Department of Solid State Physics, Indian Association for the Cultivation of Science, India*
- QL15 Bias-voltage dependence of magnetotransport properties in co-deposited Co-C granular thin films
Jun-goo Kang^{1*}, Masaki Mizuguchi¹, Shiro Entani², Seiji Sakai² and Koki Takanashi¹, ¹*Institute for Materials Research, Tohoku University, Japan*; ²*Advanced Science Research Center, Japan Atomic Energy Agency, Japan*
- QL16 Switchable voltage control of the magnetic anisotropy in heterostructured nanocomposites of CoFe/NiFe/PZT
Thang D. Pham^{1*}, Hong T. M. Nguyen², Dong H. Kim³, Tiep H. Nguyen² and Cuong V. Le², ¹*Faculty of Engineering Physics and Nanotechnology, University of Engineering and Technology, Vietnam National University, Hanoi, Viet Nam*; ²*Laboratory for Micro and Nanotechnology, University of Engineering and Technology, Vietnam National University, Hanoi, Viet Nam*; ³*Department of Physics, Chungbuk National University, Korea*
- QL17 Origin of the ferromagnetism in scandium-doped ZnO thin films
Mohammed Benali Kanoun*, Souraya Goumri-said, Udo Schwingenschlogl and Aurelien Manchon, *King Abdullah University of Science and Technology (KAUST), Saudi Arabia*
- QL18 Magnetic control of the hydrogen storage of hydrogen-injected ZnCoO
Bum-su Kim¹, Seunghun Lee¹, Jong Moon Shin², Yong-chan Cho¹, Yong Nam Choi³, Hee-ju Lee³, Chae Ryong Cho², Hideomi Koinuma¹ and Se-young Jeong^{1*}, ¹*Cogno-Mechatronics Engineering, Pusan National University, Korea*; ²*Nano fusion technology, Pusan National University, Korea*; ³*Korea Atomic Energy Research Institute, Korea*
- QL19 Ferromagnetism in Co-doped TiO₂ films probed by low-energy muon spin rotation
Hassan Saadaoui^{1*}, Jiabao Yi², Zaher Salman¹, Thomas Prokscha¹ and Elvezio Morenzoni¹, ¹*Laboratory for Muon Spin Spectroscopy, Paul Scherrer Institut, 5232 Villigen PSI, Switzerland*; ²*School of Materials Science and Engineering, University of New South Wales, Kensington, NSW, 2052, Australia*
- QL20 Structural and magnetic changes induced by high energy ball milling of CdFe₂O₄ oxide
Justice Msomi and Ta Nhlapo, *School of Chemistry and Physics, University of KwaZulu-Natal, South Africa*
- QL21 Room temperature ferromagnetism in $\text{Zn}_{1-x}\text{Ni}_x\text{S}$ diluted magnetic semiconducting nanocrystalline thin films
M A El-hagary^{1*}, Soltan Soltan², M Emam-ismail¹ and S Althoyaib¹, ¹*Physics Department, Qassim University, Saudi Arabia*; ²*Physics Department, Helwan University, Helwan, Cairo, Egypt*

POSTER PRESENTATION

July 10 (Tue)

QM: Magnetic characterization

July 10 (Tue), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: T. Nakagawa (IMS, Japan)

QM01 Extraordinary hall measurements of Co/Ni multilayers

Chih-yung Chen¹, James C Eckert¹, Natalia Fear¹, Sheena K. K. Patel¹, Richard Sayanagi¹, Patricia D Sparks¹, E Shipton² and Eric E Fullerton², ¹Physics, Harvey Mudd College, USA; ²University of California, San Diego, USA

QM02 Magnetic spin structure of Fe₅₀Pt_{50-x}Rh_x films

Jochen Fenske¹, Dieter Lott¹, Gary J. Mankey², Wolfgang Schmidt³, Karin Schmalz³, Elena V. Tartakovskaya⁴ and Andreas Schreyer¹, ¹Helmholtz-Zentrum Geesthacht, Germany; ²MINT Center, University of Alabama, USA; ³Juelich Centre for Neutron Science, Germany; ⁴Institute for Magnetism, National Ukrainian Academy of Science, Ukraine

QM03 Cross over from anisotropic magnetoresistance to magnon magnetoresistance in PLD grown permalloy nanowires

Vineeth Mohanan Parakkat and Anil P. S Kumar, Physics, Indian Institute of Science, India

QM04 Investigation of magnetic anisotropy of ferromagnetic GaMnAs film by planar Hall effect

Jaehyuk Won¹, Jinsik Shin¹, Yoonjung Gwon¹, Hyehyeon Byeon¹, Sangyeop Lee¹, Sanghoon Lee^{1*}, X. Liu² and J. K. Furdyna², ¹Physics Department, Korea University, Korea; ²Physics Department, University of Notre Dame, USA

QM05 A crossover between magnetic vortex state and strip domains in electrodeposited nanogranular nickel films

Alexander Sergeevich Samardak^{1*}, Ekaterina Sukovatitsina¹, Alexey Ognev¹, Ludmila Chebotkevich¹, S. M. Janjan² and Farzad Nasirpour², ¹School of Natural Sciences, Far Eastern Federal University, Institute of Automation and Control Processes FEBRAS, Russia; ²Department of Materials Engineering, Sahand University of Technology, Iran

QM06 Non-linear susceptibility of nanogranular FeAg films at the verge of superferromagnetism

D. Alba Venero¹, L. Fernandez Barquin^{1*}, S. N. Kaul², J Alonso³ and M. L. Fdez-gubieda³, ¹CITIMAC, Universidad de Cantabria, Santander 39005, Spain; ²School of Physics and Centre for Nanotechnology, University of Hyderabad, Hyderabad - 500046, India; ³Electricidad y Electronica, Universidad del País Vasco, Bilbao 48080, Spain

QM07 Dynamics of Ni-Fe elliptical dot arrays based on CPW-FMR measurements

Yasushi Endo, Naomi Skashita*, Yutaka Shimada and Masahiro Yamaguchi, Graduate School of Engineering, Tohoku University, Japan

QM08 Structure and magnetic properties of SiO₂(Co) granular film on GaAs substrate

Victor Ukleev^{1*}, Natalya Grigoryeva², Ekaterina Dyadkina¹, Alexei Vorobiev³, Dieter Lott⁴, Leonid Lutsev⁵, Alexander Stognij⁶, Dirk Menzel⁷, Nicolay Novitskiy⁶ and Sergei Grigoriev¹, ¹Petersburg Nuclear Physics Institute, Russia; ²Saint-Petersburg State University, Russia; ³European Synchrotron Radiation Facility, France; ⁴Helmholtz-Zentrum Geesthacht, Germany; ⁵Ioffe Physical-Technical Institute, Russia; ⁶Scientific and Practical Materials Research Centre of NAS of Belarus, Belarus; ⁷Institut für Physik der Kondensierten Materie, TU Braunschweig, Germany

QM09 Magnetic properties and structure of electrodeposited nickel on thin niobium film

Huei-ying Ho^{1*}, Wei-yan Lin¹, Shih-jia Chen¹, Hong-wen Cheng¹ and Yung Liou², ¹Department of Science Education, National Taipei University of Education, Taiwan; ²Institute of Physics, Academia Sinica, Taiwan

QM10 Characterization of epitaxial EuS(111) thin films on BaF₂(111) and SrF₂(111) substrates grown by molecular beam epitaxy

Shinya Senba^{1*}, Naoki Matsumoto², Mitsuhiro Jomura², Hironori Asada², Yasuhiro Fukuma³, Tsuyoshi Koyanagi² and Kengo Kishimoto², ¹Ube National College of Technology, Japan; ²Graduate School of Science and Engineering, Yamaguchi University, Japan; ³Faculty of Computer Science and Systems Engineering, Kyushu Institute of Technology, Japan

POSTER PRESENTATION

July 10 (Tue)

QM11 (Withdrawn) The cation distribution and electrical hopping in Fe_{3-x}Co_xO₄ (0<x<1.65) ferrite films on MgO substrate grown by molecular beam epitaxy

Der-sheng Lee¹ and Gung Chern^{2*}, ¹Electrical Engineering Department, DA-YEH University, Chunghua, Taiwan; ²Physics Department and SPIN Research Center, National Chung Cheng University, Chia-Yi, Taiwan

QM12 Magnetic circular dichroism in near-threshold two-photon photoemission

K Hild¹, S A Nepijko¹, G Schoenhense¹, H J Elmers^{1*}, T Nakagawa², T Yokoyama², K Tarafder³ and P M Oppeneer³ ¹Institute of Physics, University of Mainz, Germany; ²Institute for Molecular Science, The Graduate University for Advanced Studies (Sokendai), Japan; ³Department of Physics and Astronomy, Uppsala University, Sweden

QM13 Structural and magnetic properties of pseudocubic BaFeO₃-d thin films

B. Ribeiro^{1*}, R. P. Borges¹, R. C. Da Silva², N. Franco², P. Ferreira³, T. P. Gasche⁴, E. Alves² and M. Godinho¹, ¹CFMC /Dep. Física, Faculdade de Ciencias, Universidade de Lisboa, Campo Grande, 1749-016 Lisboa, Portugal; ²Unidade de Física e Aceleradores, Instituto Tecnológico e Nuclear, E.N. 10, 2686-953, Portugal; ³Departamento de Engenharia Cerâmica e do Vidro, CICECO, Universidade de Aveiro, Portugal; ⁴CINAMIL, Laboratorio de Física da Academia Militar, Lisboa, Portugal

QM14 Exchange anisotropy and antiferromagnetic coupling in NiFe/FeMn/Co trilayers

Fernando Pelegrini^{1*}, Marcos Antonio De Sousa², Willian Alayo³ and Elisa Baggio-saitovitch³, ¹Universidade Federal de Goias - Instituto de Física, Brazil; ²Universidade Federal de Goias, Brazil; ³Centro Brasileiro de Pesquisas Físicas, Brazil

QM15 Parallel spin wave resonance in exchange-biased NiFe/FeMn/NiFe trilayers

Fernando Pelegrini^{1*}, Valberto Pedruzi Nascimento², Armando Biondo², Edson Caetano Passamani² and Elisa Baggio-saitovitch³, ¹Instituto de Física, Universidade Federal de Goias, Brazil; ²Departamento de Física, Universidade Federal do Espírito Santo, Brazil; ³Centro Brasileiro de Pesquisas Físicas, Brazil

QM16 Studies on local structures and magnetism at buried Fe/ Fe₃O₄ interfaces using synchrotron-radiation Mössbauer spectroscopy

Ko Mibu^{1*}, Hideto Yanagihara², Takaya Mitsui³, Ryo Masuda³, Shiori Hori¹, Atsushi Murata¹, Masaaki Tanaka¹, Kazuya Suzuki², Eiji Kita² and Makoto Seto⁴, ¹Graduate School of Engineering, Nagoya Institute of Technology, Japan; ²Institute of Applied Physics, University of Tsukuba, Japan; ³Japan Atomic Energy Agency, Japan; ⁴Research Reactor Institute, Kyoto University, Japan

QM17 Dependence of in-plane magnetic anisotropy of Au/Co/Au heterostructures on thickness of Co-component layer: An FMR study

Leszek Gladczuk, Pavlo Aleshkevych and Piotr Przysłupski, Institute of Physics, Polish Academy of Sciences, Al. Lotników 32/46, PL02-668 Warsaw, Poland

QM18 Depth dependent chemical and magnetic information of CoFeB/MgO multilayered thin films studied by x-ray and polarized neutron reflectometry

Ki Yeon Kim^{1*}, Il Jae Shin², Byoung Chul Min², Hyek Cheol Choi³, Chun Yeol You³, Jeong Soo Lee¹, Surendra Singh⁴, M. R. Fitzsimmons⁴ and Sungkyun Park⁵, ¹Neutron Science Division, Korea Atomic Energy Research Institute, Korea; ²Center for Spintronics Research, Korea Institute of Science and Technology, Korea; ³Department of Physics, Inha University, Korea; ⁴Los Alamos National Laboratory, USA; ⁵Department of Physics, Pusan National Laboratory, Korea

QM19 (Withdrawn) Depth-resolved rotational hysteresis of exchange-coupled Fe/Cr multilayers

Tatyana Guryeva, Kai Schlage, Hans-christian Wille and Ralf Roehlsberger, HASYLAB, Deutsches Elektronen-Synchrotron (DESY), Germany

POSTER PRESENTATION

July 10 (Tue)

- QM20 Magnetization reversal behavior in exchange-coupled NiFe/FeMn/CoFe trilayers : vectorial MOKE & PNR study**
Ki Yeon Kim^{1*}, Ji Wan Kim², Hyek Cheol Choi³, Anke Teichert⁴, Chun Yeol You³, Sungkyun Park⁵, Sung Chul Shin² and Jeong Soo Lee¹, ¹Neutron Science Division, Korea Atomic Energy Research Institute, Korea; ²Department of Physics and Center for Nanospinics of Spintronic Materials, Korea Advanced Institute of Science and Technology, Korea; ³Department of Physics, Inha University, Korea; ⁴Helmholtz Zentrum Berlin für Materialien und Energie, Germany; ⁵Department of Physics, Pusan National Laboratory, Korea
- QM21 Uniaxial magnetic anisotropy of La_{0.7}Sr_{0.3}MnO₃ film grown on step-terrace surface SrTiO₃ (100) substrate**
Byeong-geon Kim, Sanghoon Ki and Joonghoe Dho*, Kyungpook National University, Korea
- QM22 The effect of compositional ratio on the magnetocaloric effect**
Ho-sup Kim¹, Sang-soo Oh¹, Kiran Shinde¹, Seung-kyu Baik¹, Kook-chae Chung² and Bhavesh Bharat Sinha², ¹Korea Electrotechnology Research Institute, Korea; ²Korea Institute of Materials Science, Korea
- QM23 Magnetocaloric effect in Ni doped Zn ferrite nanoparticles grown by the combustion method**
Kyungdong Lee, Rahul Chandrakant Kambale and Namjung Hur*, Department of Physics, Inha university, Korea
- QM24 Interlayer interaction In ReCoPO (La, Nd and Sm): 31P NMR Study**
M Majumder¹, K Ghoshray^{1*}, A Ghoshray¹, A Pal² and V. P. S Awana², ¹ECMP Division, Saha Institute of Nuclear Physics, Kolkata, India; ²QPA Division, National Physical Laboratory (CSIR) Dr. K.S. Krishnan Marg, New Delhi-110012, India
- QM25 Jahn-teller distortion and enhancement of curie temperature of Mn_{3-x}Ni_xO₄ films on MgO (001) by molecular beam epitaxy**
Der-sheng Lee¹, K. M. Kuo² and Gung Chern^{2*}, ¹Electrical Engineering Department, DA-YEH University, Chunghua, Taiwan; ²Physics Department and SPIN Research Center, National Chung Cheng University, Chia-Yi, Taiwan
- QM26 Anomalous switching of in-plane magnetic anisotropy of Fe and Co thin films grown on curved Pt(001) surface**
Wondong Kim^{1*}, Chanyong Hwang¹ and Z.Q. Qiu², ¹Korea Research Institute of Standards and Science, Korea; ²Physics Department, University of California at Berkeley, USA
- QM27 Magnetic-field and temperature-dependent relaxation in ferrofluids characterized with a high-Tc SQUID-based nuclear magnetic resonance spectrometer**
Hong-chang Yang^{1*}, Chieh-wen Liu², Shu-hsien Liao³, M.j. Chen¹, K.I. Chen¹, Hsin-hsien Chen³, Herng-er Horng³, L.m. Wang¹ and S.y. Yang³, ¹Department of physics, National Taiwan University, Taiwan; ²Department of Physics, National Taiwan University, Taiwan; ³Institute of Electro-Optical Science and Technology, National Taiwan Normal University, Taiwan
- QM28 Influence of metal precursor on synthesis and magnetic properties of nanocrystalline strontium hexaferrite thin films**
S. M. Masoudpanah, S. A. Seyyed Ebrahimi* and M. Khodaei, Center of Excellence for Magnetic Materials, University of Tehran, Iran
- QM29 Planar Hall effects measurements of sensitive magnetization response in epitaxial Fe thin films**
Anis Faridah Md Nor^{1*}, Tatsuya Matsumoto², Tepppei Takashima², Terumitsu Tanaka² and Kimihide Matsuyama², ¹Physics Department, University of Malaya, Malaysia; ²Department of Electronics, ISEE, University of Kyushu, Japan

QN: Soft magnetic materials II

July 10 (Tue), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Manuel Vazquez (Institute of Materials Science of Madrid, CSIC, Spain)

POSTER PRESENTATION

July 10 (Tue)

- QN01 Antiferromagnetic order and domains in Sr₃Ir₂O₇**
S. Boseggia¹, R. Springell¹, H. C. Walker², A. T. Boothroyd³, D. Prabhakaran³, D. Wermeille⁴, L. Bouchenoire⁴, S. P. Collins⁵ and D. F. McMorrow¹, ¹Physics and Astronomy, London Centre for Nanotechnology, UCL, United Kingdom; ²European Synchrotron Radiation Facility, France; ³Clarendon Laboratory, University of Oxford, United Kingdom; ⁴5XMaS, UK-CRG, European Synchrotron Radiation Facility, France; ⁵Diamond Light Source, Didcot, Oxfordshire, United Kingdom
- QN02 High frequency permeability of Fe-Co and Co granular composite materials**
Teruhiro Kasagi^{1*}, Aiko Tsurunaga², Takanori Tsutaoka² and Kenichi Hatakeyama³, ¹Tokuyama College of Technology, Japan; ²Graduate School of Education, Hiroshima University, Japan; ³Graduate School of Engineering, University of Hyogo, Japan
- QN03 Magnetic carbonyl iron suspension with nanoclay additive and its magnetorheological properties**
Cheng Hai Hong, Ying Dan Liu and Hyoung Jin Choi*, Department of Polymer Science and Engineering, Inha University, Korea
- QN04 Hysteresis analysis: A study on the demagnetization by using M-B Preisach model for improved stability of numerical analysis**
Hyuk Won and Gwan Soo Park*, School of Electrical Engineering, Pusan National University, Korea
- QN05 A study on the design of transmitting coils and receiving coils on active magnetic sensor using finite element method**
Hye Sun Ju and Gwan Soo Park*, Pusan National University, Korea
- QN06 What can we learn from isothermal remanent magnetization curves on diluted nanoparticle assemblies?**
Florent Tournus*, Arnaud Hillion, Alexandre Tamion and Veronique Dupuis, LPMCN, CNRS & Univ. Lyon 1, France
- QN07 On real-time hysteresis compensation for magnetostriictive sound transducers**
Hae Jung Park and Young-woo Park*, Department of Mechatronics Engineering, Chungnam National University, Korea
- QN08 The investigation on structural and magnetic properties of Ni-Cu-Zn-Mn-Mg-Li ferrites**
Chih-Wen Chen, Mean-June Tung and Shi-Yuan Tong, Industrial Technology Research Institute, Taiwan
- QN09 Magnetorheology of xanthan gum coated soft magnetic carbonyl iron microspheres and their polishing characteristics**
Seung Hyuk Kwon¹, Hyoung Jin Choi^{1*}, Jung Won Lee², Kwang Pyo Hong² and Myeong Woo Cho², ¹Department of Polymer Science and Engineering, Inha University, Korea; ²Department of Mechanical Engineering, Inha University, Korea
- QN10 Cluster-glass-like magnetic state in rare-earth intermetallic compound Tb₅Pd₂**
Andrey F. Gubkin^{1*}, Pavel E. Terent'ev², Elena A. Sherstobitova¹ and Nikolai V. Baranov³, ¹Laboratory of neutron scattering, Institute of Metal Physics, Russia; ²Laboratory of ferromagnetic alloys, Institute of Metal Physics, Russia; ³Laboratory of micromagnetic materials, Institute of Metal Physics, Ural Federal University, Russia
- QN11 Microwave absorption properties of polymer composites with amorphous Fe-B and Ni-Zn-Co ferrite nanoparticles**
Kazuaki Shimba*, Shozo Yuki, Nobuki Tezuka and Satoshi Sugimoto, Materials Science, Tohoku University, Japan
- QN12 Magnetostrictive properties of Mn substituted sintered cobalt ferrite derived from nanocrystalline materials**
Khaja Mohaideen Kamal and P A Joy*, Materials chemistry division, National Chemical Laboratory, India
- QN13 Magnetic properties of Co₂Z ferrite densified through high BET powders**
Ji Yeon Song and Young Ho Han*, Materials Engineering, Sungkyunkwan University, Korea

POSTER PRESENTATION**July 10 (Tue)****QN14 Magnetic properties of Cr³⁺ substituted Mg-Cd ferrites**

S A Masti^{1*}, A. K Sharma² and P. N. Vasambekar³, ¹*Physics, Dr. Ghali College, Gadchinglaj, India;* ²*Physics, Shivaji University, Kolhapur, India;* ³*Electronics, Shivaji University, Kolhapur, India*

QN15 Docking speaker based on magnetostrictive sound transducer

Han Sam Kang, Jin Hong Min and Young Woo Park*, *Department of Mechatronics Engineering, Chungnam National University, Korea*

QN16 (Withdrawn) Characteristics of composite materials Ba_{0.5}Sr_{0.5}Fe_{11.7}Mn_{0.15}Ti_{0.15}O₁₉/La_{0.7}Ba_{0.3}MnO₃ as a microwave absorber

V. Vekky R. Repi* and Azwar Manaf, *Graduate Program of Materials Science Study, Universitas Indonesia, Indonesia*

QN17 The effect of shape anisotropy to acoustical performance of magnetostrictive sound transducer

Hae Jung Park, Young Woo Park* and Ok Kyun Oh, *Department of Mechatronics Engineering, Chungnam National University, Korea*

QN18 Size effects on magnetic properties of nanocrystalline Sr₂CuCo₂Fe₂₄O₄₁ prepared by Co-precipitation method

K Praveena and K Sadhana, *Materials Research Centre, Indian Institute of Science, India*

QN19 Structural and magnetic properties of Mn₂Rh_{1-x}Co_xSn Heusler alloys

Olga Meshcheriakova¹, Jurgen Winterlik¹, Gerhard H. Fecher², Benjamin Balke¹ and Claudia Felser³, ¹*Institute of Inorganic and Analytical Chemistry, Johannes Gutenberg University Mainz, Germany;* ²*Institute of Inorganic and Analytical Chemistry, Johannes Gutenberg University Mainz, Max Planck Institute for Chemical Physics of Solids, Dresden, Germany;* ³*Institute of Inorganic and Analytical Chemistry, Johannes Gutenberg University Mainz, Max Planck Institute for Chemical Physics of Solids, Dresden, Germany*

QN20 Magnetic properties of Mn₂Sb_{1-x}Ge_x (0.05 ≤ x ≤ 0.2) in high magnetic fields

Daisuke Shimada^{1*}, Hiroki Orihashi¹, Daisuke Mitsunaga¹, Kohki Takahashi², Masahiko Hiroi¹, Masakazu Ito¹, Kazuyuki Matsubayashi³, Yoshiya Uwatoko³ and Keiichi Koyama^{1,*}, ¹*Kagoshima University, Japan;* ²*Tohoku University, Japan;* ³*Tokyo University, Japan*

QN21 Microwave magnetic properties of FeNi films prepared by electrodeposition

Dong Zhou¹, Wei Li¹, Minggang Zhu^{1*}, Yanfeng Li¹, Wei Sun¹ and Fashen Li², ¹*Central Iron & Steel Research Institute, China;* ²*Lanzhou University, China*

QN22 Preparation and characterization of ferromagnetic fluid and magneto-rheological fluid

Tae Min Hong¹, Jong Hee Kim², Cheolgi Kim³ and Seung Goo Lee^{1*}, ¹*Advanced Organic Materials & Textile System Engineering, Chungnam National University, Korea;* ²*Research Center for Advanced Magnetic Material, Chungnam National University, Korea;* ³*Materials Science & Engineering, Chungnam National University, Korea*

QN23 Microwave magnetic and absorbing properties of the planar-anisotropy Ce₂Fe₁₇N₃ powder composite

Jianqiang Wei, Wenliang Zuo, Tao Wang and Fashen Li*, *Key Laboratory of Magnetism and Magnetic Materials of Ministry of Education, Lanzhou University, China*

QN24 Co₂Y-NiCuZn ferrite composites for high frequency applications

Ruei-lin Lin and Hsing-i Hsiang*, *Resources Engineering, National Cheng Kung University, Taiwan*

QN25 A novel low-temperature-fired multifunctional varistor-magnetic NiCuZn ferrites

Wei-hung Hsu, Hsing-i Hsiang* and Li-then Mei, *Resources Engineering, National Cheng Kung University, Taiwan*

QN26 Synthesis and magnetic properties of transition metal ferrite nanoparticles

Tejabhiram Yadavalli¹, Shivaraman Ramaswamy¹, Gopalakrishnan Chandrasekaran¹ and Ramasamy R², ¹*Nanotechnology Research Centre, SRM University, India;* ²*School of Pharmacy, SRM University, India*

POSTER PRESENTATION**July 10 (Tue)****QO: Novel magnetic materials and devices II****July 10 (Tue), 13:30-15:30, Exhibition Hall 1 (1F)**

Chairpersons: Gendo Omii (Kurume Institute of Technology, Japan)

Jesus Rodriguez Fernandez (Universidad de Cantabria, Spain)

QO01 High room temperature power factor (Z) in K_xRhO₂

Nirpendra Singh, Yasir Saeed and Udo Schwingenschlog*, *King Abdullah University Science and Technology Thuwal, Saudi Arabia*

QO02 Optimized Halbach array based magnet systems for Lorentz force velocimetry purposes

Michael Werner^{1*} and Bernd Halbedel², ¹*University of Technology Ilmenau, Germany;* ²*Department of Inorganic-Nonmetallic Materials, University of Technology Ilmenau, Germany*

QO03 Growth and characterization of SmFe₆Ge₆ single crystals

Rodrigo S. Monteiro, Lucas K. Piquini, E. Thizay Magnavita, Raquel A. Ribeiro and Marcos A. Avila*, *Centro de Ciencias Naturais e Humanas, Universidade Federal do ABC, Brazil*

QO04 Anomalous magnetic and related properties of Nd₅Ge₃

Bibekananda Maji^{1*}, K G Suresh¹ and A K Nigam², ¹*Physics, Indian Institute of Technology Bombay, Mumbai-400076, India;* ²*Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai- 400005, India*

QO05 Magnonic meta- and meta-meta-materials

Rostislav V. Mikhaylovskiy^{1*}, Michal Mruczkiewicz², Maciej Krawczyk² and Volodymyr V. Kruglyak¹, ¹*School of Physics, University of Exeter, United Kingdom;* ²*Faculty of Physics, Adam Mickiewicz University, Poznan, Poland*

QO06 Understanding the nature of magnetic phase transition in relevance to magnetic refrigeration

S M Yusuf*, *Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai 400085, India*

QO07 Specific heat study on successive magnetic transitions in -Dy₂S₃ single crystal under magnetic fields

Shuji Ebisu*, Yuji Ushiki and Shin Takahashi, *Division of Applied Sciences, Muroran Institute of Technology, Japan*

QO08 Magneto-inductive wave in periodic chains of ferrite cores and chip capacitors

Yongmin Kim and Kwang-ho Shin*, *Dept. of Information and Communication Engineering, Kyungsung University, Korea*

QO09 Large refrigerant capacity in Ni_{2.9}Co_{0.1}MnIn type-Heusler alloy

Catalina Salazar Mejia¹, Angelo M Gomes¹, Ana Lima Sharma² and Fivos R Drymiotis³, ¹*Instituto de Fisica, Universidade Federal do Rio de Janeiro, Brazil;* ²*Materials Physics Department, Sandia National Laboratory, Livermore, CA, USA;* ³*Department of Physics and Astronomy, Clemson University, Clemson, SC, USA*

QO10 Reduction of weak localization strength on controlling oxygen defects by ex-situ annealing

Seong-min Choo¹, Kyujoon Lee¹, Sungmin Park¹, Gwang-seo Park¹, Jungwon Jang², Jinhee Kim² and Myung-hwa Jung^{1*}, ¹*Department of Physics, Sogang University, Korea;* ²*Korea Research Institute Standard Science, Korea*

QO11 Reconstruction of cubic rs-ZnO on MgO (200) substrate through 100 plane of w-Zn for transparent electronic application

Chungman Kim¹, Santosh M Bobade¹, Seong-min Choo¹, Suhyun Kim¹, Kyung Ho Shin² and Myung-hwa Jung^{1*}, ¹*Sogang University, Korea;* ²*Korea Institute of Science and Technology, Seoul, Korea*

QO12 Magnetic cooling machine prototype based on cold rolled Gd foil

Sergey V. Taskaev*, Vasiliy D. Buchelnikov, Victor V. Nikolenko, Ivan A. Chernets and Andrey N. Denisovsky, *Physics department, Chelyabinsk State University, Russia*

POSTER PRESENTATION**July 10 (Tue)****QO13 Research on the orbital state of IrO₂ with resonant x-ray scattering method**

Yasuyuki Hirata¹, Kenya Ohgushi¹, Junich Yamaura¹, Hiroyuki Ohsumi², Soshi Takeshita² and Takahisa Arima³,
¹Institute for Solid State Physics, University of Tokyo, Japan; ²RIKEN SPring-8, Japan; ³Department of Advanced Materials Science, University of Tokyo, Japan

QO14 Investigation of magnetic-field tunable properties of magnetorheological elastomers

Nikolai Perov^{1*}, Anna Semisalova¹, Elena Yu Kramarenko¹, Alexey R Khokhlov¹ and Gennady V Stepanov²,
¹Lomonosov Moscow State University, Russia; ²State Research Institute for Chemistry and Technology of Organoelement Compounds, Moscow, Russia

QO15 Disagreement between modification methods for magnetism-absorbing agent

Wu Chao, Lv Xuliang^{*}, Zeng Zhaoyang, Wen Xiaodi and Wen Liuqiang , PLA University of Science and Technology, China

QO16 Ordered magnetic arrays of cobalt SMM: properties and the relationship with crystal symmetry and SMM environment

Milagros Tomas¹, Cristina Saenz De Pipaon², Elena Forcen-vazquez², Isabel Mayoral², Larry Falvello³, Javier Campo² and Fernando Palacio^{4*}, ¹Instituto de Sintesis Quimica y Catalisis Homogenea (ISQCH), Consejo Superior de Investigaciones Cientificas and University of Zaragoza, Spain; ²Instituto de Ciencia de Materiales de Aragon, Consejo Superior de Investigaciones Cientificas and University of Zaragoza, Spain; ³Departamento de Quimica Inorganica and Instituto de Ciencia de Materiales de Aragon, Consejo Superior de Investigaciones Cientificas and University of Zaragoza, Spain; ⁴Instituto de Ciencia de Materiales de Aragon (ICMA), Consejo Superior de Investigaciones Cientificas and University of Zaragoza, Spain

QO17 Enhancement of the refrigerant capacity in Gd₆₅Fe₂₀Al₁₀B₅ alloys by partial crystallization of melt-spun amorphous ribbons

Jozef Marcin¹, Zbigniew Sniadecki², Jozef Kovac¹, Peter Svec³, Bogdan Idzikowski² and Ivan Skorvanek^{1*},
¹Institute of Experimental Physics SAS, Kosice, Slovak; ²Institute of Molecular Physics PAS, Poznan, Poland;
³Institute of Physics SAS, Bratislava, Slovak

QO18 Chemical pressure effects on half-metallic properties in single crystals of A₂FeMoO₆ (A = Ca, Sr, and Ba)

Akira Isayama* and Takao Sasagawa, Materials and Structures Laboratory, Tokyo Institute of Technology, Japan

QO19 Magnetic label field collector of biochip sensor

Sunjong Oh, Brajalal Sinha, Jaein Lim and Chelgi Kim*, Department of Materials Science and Engineering, Center for NanoBioengineering and Spintronics, Chungnam National University, Korea

QO20 Cogging torque cancellation technique for dual rotor type motor using adjustment between outer and inner rotor magnet angle

Tae Won Jeong¹, Hyun Rok Cha^{1*}, Dae Yeong Im¹, Kwang Heon Kim² and Hyoung Uk Nam¹, ¹Automotive components R&D group, korea institute of industrial technology, Korea; ²Department of Electrical Engineering University of the Chonnam, Korea

QO21 A broadband circuit analog absorber based on printed dipole antenna

Li Xiaopeng¹, Cui Chuan'an¹, Lv Xuliang^{1*} and Lin Shaofeng², ¹Engineering Institute of Corps of Engineers, PLA University of Science and Technology, China; ²Xi'an Communication Institute, China

QO22 Effect of oxygen pressure to magnetism and transport properties of epitaxial Fe₃O₄ grown by molecular beam epitaxy

Dang Duc Dung¹, Wuwei Feng², Duong Van Thiet², Duong Anh Tuan² and Sunglae Cho^{2*}, ¹Department of General Physics, School of Engineering Physics, Ha Noi University of Science and Technology, 1 Dai Co Viet road, Ha Noi, Viet Nam; ²Department of Physics, University of Ulsan, Ulsan 680-749, Korea

POSTER PRESENTATION**July 10 (Tue)****QO23 Magnetism and transport properties of epitaxial Mn₅Ge₃ thin films on GaAs(001) and GaSb(001)**

Dang Duc Dung¹, Doji Odkhuu² and Sunglae Cho^{2*}, ¹Department of General Physics, School of Engineering Physics, Ha Noi University of Science and Technology, 1 Dai Co Viet road, Ha Noi, Viet Nam; ²Department of Physics, University of Ulsan, Ulsan 680-749, Korea

QO24 Current-driven domain wall motion in artificial magnetic domain structures

Ke Wang¹, Murali Krishnan Hari^{1*}, Simon Bending¹, Erhan Arac², Del Atkinson², Serban Lepadatu³, J S Claydon³ and Chris Marrows³, ¹Department of Physics, University of Bath, United Kingdom; ²Department of Physics, University of Durham, United Kingdom; ³School of Physics and Astronomy, University of Leeds, United Kingdom

QO25 The cellular uptake mechanism of SPIONs: an in-vitro study

Yasmin Khan¹ and Radha Srinivasan^{2*}, ¹Department of Life Sciences, Sophia College, Mumbai, India; ²Department of Physics, University of Mumbai, India

QO26 Theoretical and experimental studies of valence states in Fe-Mo compounds

Francisco Estrada^{1*}, Reginaldo Mondragon¹, Humberto Noverola², Jaime Raul Suarez³, Martha Teresita Ochoa¹, Francisco Espinosa¹, Lorena Alvarez¹, Ricardo Morales⁴, Jose Lemus⁴, Oracio Navarro² and Michel Avignon³, ¹Centro de Investigacion en Materiales Avanzados, S. C, Mexico; ²Instituto de Investigaciones en Materiales, Universidad Nacional Autonoma de Mexico, Mexico; ³Institut Neel, CNRS and Universite Joseph Fourier, France; ⁴Instituto de Investigaciones Metalurgicas, UMSNH, Mexico

QO27 Structural modifications in magnetic MWCNT by 100 MeV SHI irradiations

Sanjeev Gautam¹, Keun Hwa Chae¹, Jong Han Song¹, Saji Augstine², J.k. Kang² and K. Asokan³, ¹Advanced Analysis Center, Korea Institute of Science and Technology (KIST), Korea; ²Material Science and Engineering, Korea Advanced Institute of Science and Technology (KAIST), Korea; ³Material Science Center, Inter-University Accelerator Center, New Delhi, India

QO28 Magnetic and magneto-transport properties of (Mn_{0.8}, Zn_{0.2})_{1-x}Ga_xFe₂O₄ ferrites

Hyo-jin Kim and Sang-im Yoo*, Department of Materials Science and Engineering, Seoul National University, Korea

QP: Magnetic recording and memories

July 10 (Tue), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Yukiko Takahashi (NIMS, Japan)

QP01 Magnetic coupling at the CoO/Ni interface

Sergiy Grytsyuk*, Fabrizio Cossu and Udo Schwingenschlogl, Physical Sciences and Engineering, King Abdullah University of Science & Technology, Saudi Arabia

QP02 Electronic, structural, and magnetic properties of O and Py deficient CoO/Py interfaces.

Sergiy Grytsyuk* and Udo Schwingenschlogl, Physical Sciences and Engineering, King Abdullah University of Science & Technology, Saudi Arabia

QP03 Effect of the external fields on SpinRAM switching time

Mitsuhiko Shiomi* and Yoshinobu Nakatani, Univ. of Electro- Communications, Japan

QP04 A study on the perpendicular toggle-MRAM system by using new combined hysteresis method for high Gb/Chip

Hyuk Won and Gwan Soo Park*, School of Electrical Engineering, Pusan National University, Korea

POSTER PRESENTATION

July 10 (Tue)

- QP05 Room temperature exchange bias in the multiferroic $\text{BiFe}_{0.8}\text{Mn}_{0.2}\text{O}_3$ nanoparticles with a core-shell structure
S M Yusuf* and P K Manna, *Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai 400085, India*
- QP06 Magnetic and Transport Properties of $\text{Mn}_{3-x}\text{Ga}/\text{MgO}/\text{Mn}_{3-x}\text{Ga}$ Magnetic Tunnel Junctions: A First-Principles Study
Zhaoqiang Bai, Yongqing Cai, Lei Shen, Guchang Han and Yuanping Feng*, *Physics, National University of Singapore, Singapore*
- QP07 Concomitant memory effect in $\text{CrO}_2/\text{Cr}_2\text{O}_3$ core-shell nanorods
Ashish Chhaganlal Gandhi and Sheng Yun Wu*, *Department of Physics, National Dong Hwa University, Taiwan*
- QP08 High resolution probes for magnetic force microscope
Xiaoxi Liu*, Shinsaku Isomura and Akimitsu Morisako, *Department of Information Engineering, Shinshu University, Japan*
- QP09 Selective magnetization switching by microwave assistance for layered magnetic pillar
Terumitsu Tanaka^{1*}, Yuto Otsuka¹, Yoshitoki Furomoto¹, Kimihide Matsuyama¹ and Yukio Nozaki², ¹*ISEE, Kyushu University, Japan;* ²*Department of Physics, Keio University, Japan*
- QP10 Thermal effect in microwave assisted magnetization reversal
Yoshitoki Furomoto, Yuto Otsuka, Terumitsu Tanaka* and Kimihide Matsuyama, *ISEE, Kyushu University, Japan*
- QP11 Stable magnetization switching with microwave assistance for exchange coupled composite grain
Terumitsu Tanaka*, Yoshitoki Furomoto, Yuto Otsuka and Kimihide Matsuyama, *ISEE, Kyushu University, Japan*
- QP12 Low-temperature epitaxial growth of FePt on glass substrates for ultrahigh magnetic recording densities
Thanassis Speliotis^{1*}, George Giannopoulos¹ and Dimitris G Niarchos², ¹*Institute of Materials Science, NCSR Demokritos, Greece;* ²*Institute of Materials Science, NCSR Demokritos, Greece*
- QP13 Controlling nanostructure in FePt films: Co-sputtering of FePt and C or SiO_2
George Giannopoulos*, Thanassis Speliotis and Dimitris G Niarchos, *Institute of Materials Science, NCSR Demokritos, Greece*
- QP14 Retention time under currents and magnetic fields in a CoFeB/MgO perpendicular magnetic tunnel junction
Michihiko Yamanouchi*, Hideo Sato, Katsuya Miura, Shoji Ikeda, Fumihiro Matsukura and Hideo Ohno, *Center for Spintronics Integrated Systems, Tohoku University, Japan*
- QP15 Thermal diffusion in magneto-optic collinear volumetric hologram memory
Seungmin Baek, Hiroyuki Sakurai, Pang Boey Lim and Mitsuteru Inoue, *Toyohashi University of Technology, Japan*
- QP16 Resolution of magnetic garnet films for magneto-optic collinear volumetric hologram memory
Seungmin Baek, Hiroyuki Sakurai, Naoto Sagara, Pang Boey Lim and Mitsuteru Inoue, *Toyohashi University of Technology, Japan*
- QP17 Room temperature ordering perpendicular magnetic anisotropy L11 CoPtCu thin film on glass substrate
Chiuan-fa Huang¹, Long-jie Li¹, An-cheng Sun^{1*}, Fu-te Yuan², Jen-hwa Hsu², S. N. Hsiao³ and H. Y. Lee³, ¹*Department of Chemical Engineering & Materials Science, Yuan-Ze University, Taiwan;* ²*Department of Physics, National Taiwan University, Taiwan;* ³*National Synchrotron Radiation Research Center (NSRRC), Taiwan*
- QP18 Magnetic anisotropy and chemical ordering in Fe-Pt films prepared by low-temperature growth technique
Nyun Jong Lee¹, Jae Young Ahn¹, Yu Jeong Bae¹, Dominique Eyidi^{2*}, Anny Michel^{2*} and Tae Hee Kim^{1*}, ¹*Department of Physics, Ewha Womans University, Korea;* ²*Departement de Physique et Mecanique des Materiaux, Institut Pprime, UPR 3346, CNRS-Universite de Poitiers-ENSMA, F86962 Futuroscope-Chasseneuil cedex, France*

POSTER PRESENTATION

July 12 (Thu)

- QP19 Nanoscale ion beam etching process for reducing damage and leakage path of magnetic tunnel junction
Daehong Kim¹, Bongho Kim¹, Sungwoo Chun¹, Hyungyu Kim¹, Seonjun Choi¹ and Seung-beck Lee^{2*}, ¹*Department of Electronic Engineering, Hanyang University, Seoul, Korea;* ²*Institute of Nano Science and Technology, Hanyang University, Seoul, Korea*
- QP20 A new planer patterned media with anti-ferro / ferro transformation
Hiroaki Ono and Hiroyuki Awano, *Toyota Technological Institute Information Storage Material Lab., Japan*
- QP21 Topology optimization of perpendicular magnetic recording head considering magnetic saturation effect
Park Soon Ok*, *Yonsei University Graduate school, Korea*
- QP22 The effect of capped layer thickness on switching behavior in coupled granular/continuous media
Weimin Li¹, Jun Ding^{1*} and Jianzhong Shi², ¹*Department of materials science and engineering, National University of Singapore, Singapore;* ²*Data Storage Institute, Agency for Science, Technology and Research (A*STAR), Singapore*
- QP23 The effect of magnetic field on FePt nanoparticles during annealing process
A. Khajehnezhad¹, S. A. Sebt¹, R. S. Dariani² and M. Akhavan^{3*}, ¹*Physics Research Center, Science and Research Branch, Islamic Azad University, Tehran, Iran, Iran;* ²*Physics, Alzahra University, Tehran, Iran;* ³*Physics, Sharif University of Technology, Iran*
- QP24 Novel soft lithography technique for fabrication of Ni nanodots for use as bit patterned media
Shivaraman Ramaswamy, *Nanotechnology Research Center, SRM University, India*
- RA:** **Multiferroics III**
July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)
Chairperson: Chan-Ho Yang (KAIST, Korea)
- RA01 Magnetic resonance and ferroelectricity of $\text{BaTi}_{1-x}\text{Fe}_x\text{O}_3$
Dianta Ginting¹, N. V. Dang², V. D. Lam², S. C. Yu¹ and T. L. Phan^{1*}, ¹*Physisch, Bk 21, chungbuk national university, Korea;* ²*Institute of Materials Science, Vietnamese Academy of Science and Technology, Hanoi, Viet Nam*
- RA02 Growth of high pure BiFeO_3 single crystals
Kai Feng¹, Jun Lu^{2*} and Yicheng Wu¹, ¹*Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Beijing 100190, China;* ²*State Key Laboratory of Magnetism, Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Beijing 100190, China*
- RA03 Structural, electrical and magnetic properties of La-doped BiFeO_3 ceramics.
M. Roy, S. Jangid, S. K. Barbar and Indu Bala Thakur, *Department of Physics, M. L. Sukhadia University, Udaipur, India*
- RA04 In situ X-ray absorption spectroscopy study on BaTiO_3
J. S. Lee* and C. C. Kao, *SSRL, SLAC National Accelerator Laboratory, USA*
- RA05 Chiral skyrmions and magnetic bubbles in multiferroic materials
Xiuzhen Yu^{1*}, Y. Tokunaga¹, S. Seki², Y. Kaneko³, S. Ishiwata², M. Mostovoy⁴, N. Nagaosa⁵ and Y. Tokura⁶, ¹*The Institute of Physical and Chemical Research, Japan;* ²*University of Tokyo, Japan;* ³*Japan Science and Technology Agency, Japan;* ⁴*University of Groningen, Netherlands;* ⁵*University of Tokyo, The Institute of Physical and Chemical Research, Japan;* ⁶*University of Tokyo, The Institute of Physical and Chemical Research, JST, Japan*

POSTER PRESENTATION**July 12 (Thu)**

- RA06 Studies on $\text{Bi}_{1-x}\text{La}_x\text{FeO}_3$ crystals in pulsed high magnetic fields**
Masashi Tokunaga¹, Mitsuru Akaki², Hideki Kuwahara², Kengo Oka¹ and Takumi Kihara¹, ¹The Institute for Solid State Physics, The University of Tokyo, Japan; ²Department of Physics, Sophia University, Japan
- RA07 Enhanced magnetic properties of Ni-doped BiFeO_3 compounds**
Y. J. Yoo¹, J. S. Park¹, J. H. Kang², J. Kim³, B. W. Lee³, M. S. Seo⁴ and Y. P. Lee^{1*}, ¹Physics, Hanyang University, Korea; ²Nano & Electronic Physics, Kookmin University, Korea; ³Physics, Hankuk University of Foreign Studies, Korea; ⁴Division of Materials Science, Korea Basic Science Institute, Korea
- RA08 Magnetic modulation of electrical impedance in Bi-doped $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$**
Sujit Kumar Barik, M Aparna Devi and Ramanathan Mahendiran*, Physics, National University of Singapore, Singapore
- RA09 Theoretical study of PCAR measurement with d-wave superconductors.**
Hiroyuki Ohtori¹ and Hiroshi Imamura^{2*}, ¹Univ. of Tsukuba, NRI-AIST, Japan; ²NRI-AIST, Japan
- RA10 T_c Evolution of bulk and optical spectra of nanocolloidal Fe-doped manganate $\text{CaMn}_{1-x}\text{Fe}_x\text{O}_3$ ($x = 0, 0.01, 0.03, 0.05$)**
Huyen-yen Duc Pham, Duc-thang Pham, Nam-nhat Hoang* and Duc-tho Nguyen, Faculty of Technical Physics and Nanotechnology, Vietnam National University, University of Engineering and Technology, Viet Nam
- RA11 Evidence of magnetic phase separation in LuFe_2O_4**
Julie Bourgeois¹, Gilles Andre², Sylvain Petit², Julien Robert², Maria Poienaru³, Jerome Rouquette³, Erik Elkaim⁴, Maryvonne Hervieu¹, Christine Martin¹, Antoine Maignan¹ and Francoise Damay², ¹Laboratoire CRISMAT, CNRS UMR 6508, 6 bd Marechal Juin, 14050 CAEN CEDEX, France; ²Laboratoire Leon Brillouin, CEA-CNRS UMR 12, 91191 GIF-SUR-YVETTE CEDEX, France; ³Institut Charles Gerhardt, UMR CNRS 5253, Place Eugene Bataillon, cc1503, 34095 MONTPELLIER CEDEX 5, France; ⁴Synchrotron Soleil, L'Orme des Merisiers, Saint-Aubin BP 48, 91192 GIF-SUR-YVETTE CEDEX, France
- RA12 Magnetolectric effect in mechanically mediated structure of TbFe_2 , $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3$, and nonmagnetic flakes**
Yin-gang Wang* and Ke Bi, Nanjing University of Aeronautics and Astronautics, China
- RA13 Enhancement of magnetization in sulfur doped BiFeO_3**
Chunlong Shi, Jun Du and Xiaoshan Wu*, Physics, Nanjing University, China
- RA14 Effects of chlorine and fluorine on the structure and magnetism in BiFeO_3**
Kaige Gao, Chunlong Shi and Xiaoshan Wu*, Physics, Nanjing University, China
- RA15 Investigation of electricity coercive behavior of LSFMT system using ultrasonic mixing method**
Erfan Handoko^{1*}, Azwar Manaf² and Dede Djuhana², ¹Physics, Department of Physics, State University of Jakarta, Indonesia; ²Physics, Department of Physics, University of Indonesia, Indonesia
- RA16 Enhancement of multiferroic properties of solid state prepared La doped BiFeO_3**
Suresh P and Srinath S*, School of Physics, University of Hyderabad, India
- RA17 Magnetostructural coupling at the metal-insulator transition in $\text{YBaCo}_2\text{O}_{5.5}$ as seen by synchrotron x-ray diffraction and absorption**
Jessica Padilla-pantoja, Javier Herrero-martin, Carlos Frontera and Jose Luis Garcia-munoz, Institut de Ciencia de Materials de Barcelona, ICMAB-CSIC, Spain
- RA18 Magnetic field dependence of dielectric properties in LuFe_2O_4**
Takashi Kambe*, Yukimasa Fukada, Tomoko Nagata and Naoshi Ikeda, Physics, Okayama university, Japan
- RA19 (Withdrawn) Pressure studies of LaAgSb_2 utilizing new integrated pressure cell**
Sven Friedemann^{1*}, Zhou Feng¹, Takao Ebihara², Christophe Thessieu³ and F Malte Grosche¹, ¹Cavendish Laboratory, University of Cambridge, United Kingdom; ²Department of Physics, Shizuoka University, Shizuoka 422-8529, Japan; ³easyLab Technologies Ltd., Earley Gate, Whiteknights Road, Reading, RG6 6BZ, United Kingdom

POSTER PRESENTATION**July 12 (Thu)**

- RA20 Crystal & Magnetic structure studies of doped BiFeO_3 multiferroic compound**
Seongsu Lee, Neutron Science Division, KAERI, Korea
- RA21 The analysis of structure, magnetic and ferroelectric properties of $\text{Ba}_{1-x}\text{Bi}_x\text{Ti}_{0.95}\text{Fe}_{0.05}\text{O}_3$**
Widi Yansen¹, Kadek Juliana Parwanta¹, Jaeyeong Kim¹, Min Gyu Kang², Chong Yun Kang² and Bo Wha Lee^{1*}, ¹Physics, Hankuk University of Foreign Studies, Korea; ²Physics, Korea Institute of Science and Technology, Korea
- RA22 Spin dynamics of multiferroic BiFeO_3 single crystal**
Jaehong Jeong¹, E. A. Goremychkin², T. Guidi², K. Nakajima³, Gun Sang Jeon⁴, Shin-ae Kim⁵, S. Furukawa⁶, Yong Baek Kim⁶, Seongsu Lee⁵, V. Kiryukhin⁷, S-w. Cheong⁷ and Je-geun Park^{1*}, ¹FPRD Department of Physics & Astronomy, Center for Strongly Correlated Materials Research, Seoul National University, Seoul 151-747, Korea; ²ISIS Facility, STFC Rutherford Appleton Laboratory, Oxfordshire OX11 0QX, United Kingdom; ³Neutron Science Section, MLF Division, J-PARC Center, Tokai, Ibaraki 319-1106, Japan; ⁴Department of Physics, Ewha Womans University, Seoul 120-750, Korea; ⁵Neutron Science Division, Korea Atomic Energy Research Institute, Daejeon 305-353, Korea; ⁶Department of Physics, University of Toronto, Toronto M5S 1A7, Canada; ⁷Rutgers Center for Emergent Materials and Department of Physics and Astronomy, Rutgers University, Piscataway NJ 08854, USA
- RA23 Magnetic and dielectric properties of the single crystals $\text{Sm}_{1-x}\text{Ho}_x\text{Fe}_3(\text{BO}_3)_4$ and $\text{Sm}_{1-x}\text{La}_x\text{Fe}_3(\text{BO}_3)_4$**
Evgeniy Eremin*, Irina Gudim, Vladislav Temerov and Alexander Eremin, Kirensky Institute of Physics SB RAS, Russia
- RA24 Far infrared spectroscopy of $\text{EuFe}_3(\text{BO}_3)_4$**
Kirill N. Boldyrev^{1*}, Taras N. Stanislavchuk², Marina N. Popova¹ and Sergey A. Klimin¹, ¹Solid State Spectroscopy, Institute of spectroscopy RAS, Russia; ²Physics, New Jersey Institute of Technology, USA
- RA25 Electric polarization, toroidal moments, spin chirality, spin canting at avoided level crossing induced by Dzyaloshinsky-Moriya interaction in V_3 nanomultiferroics in transverse magnetic field**
Moisey Belinsky, School of Chemistry, Tel-Aviv University, Tel Aviv, Israel
- RA26 Mössbauer studies of bismuth ferrite**
Seungkyu Han, Yong Hui Li, Minseon Kim, Sam Jin Kim and Chul Sung Kim*, Physics, Kookmin University, Korea
- RA27 Synthesis and electrical characterization of $\text{Bi}_{1-x}\text{Y}_x\text{FeO}_3$ ceramics**
Vikash Singh*, Manoj Kumar and R. K. Dwivedi, Physics & materials science & engg., Jaypee institute of information technology, India
- RA28 Lattice engineering on transition metal oxide thin film**
Chang Uk Jung*, Department of Physics, Hankuk University of Foreign Studies, Korea
- RB: Superconductivity III**
July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)
Chairperson: Ji Hoon Shim (POSTECH, Korea)
- RB01 Structural and magnetic properties of doped iron oxo-selenides**
Sven Landsgesell¹, Karel Prokes¹ and Dimitri Argyriou², ¹M-11, Helmholtz-Zentrum Berlin, Germany; ²European Spallation Source, Sweden
- RB02 Phase separation of antiferromagnetism and superconductivity in $\text{Rb}_x\text{Fe}_{2-y}\text{Se}_2$ observed by Rb NMR**
Yoshiaki Kobayashi^{1*}, Shunsuke Saiki¹, Shouhei Kototani¹, Masayuki Itoh¹ and Masatoshi Sato², ¹Department of Physics, Graduate School of Science, Nagoya University, Japan; ²Research Center For Neutron Science And Technology, CROSS, Japan
- RB03 Superconductivity of EuFe_2As_2 under high pressure**
Shugo Ikeda and Hisao Kobayashi, Graduate School of Material Science, University of Hyogo, Japan

POSTER PRESENTATION

July 12 (Thu)

RB04 Superconductivity in 4d, 5d pnictides

Tomohiro Takayama^{1*}, Daigorou Hirai¹, Keisuke Kuwano¹ and Hidenori Takagi², ¹Department of Advanced Materials, University of Tokyo, Japan; ²Department of Physics, University of Tokyo, Japan

RB05 Elastic softening and electric quadrupole in iron pnictide superconductor Ba(Fe_{1-x}Co_x)₂As₂

Ryosuke Kurihara¹, Koji Araki¹, Keisuke Mitsuhashi¹, Mitsuhiro Akatsu¹, Yuichi Nemoto², Terutaka Goto², Yoshiaki Kobayashi³ and Masatoshi Sato⁴, ¹Graduate School of Science and Technology, Niigata University, Japan; ²Graduate School of Science and Technology, Niigata University, JST-TRIP, Japan; ³Department of Physics, Nagoya University, JST-TRIP, Japan; ⁴Department of Physics, Nagoya University, CROSS, JST-TRIP, Japan

RB06 Concentration dependence of magnetic and transport characteristics in EuFe₂As₂P_x single crystals

Takanari Kashiwagi*, Takuya Ishikawa, Tomoki Goya, Youhei Jono, Akihiko Nozawa, Kasumi Tashima and Kazuo Kadowaki, Univ. of Tsukuba, WPI-MANA, JST-CREST, Japan

RB07 Resonance-like response in antiferromagnetically ordered Fe_{1.02}Te_{0.95}Se_{0.05}, studied by polarized inelastic neutron scattering

Karel Prokes^{1*}, Arno Hiess², Wei Bao³, Sven Landsgesell¹, Elisa Wheeler⁴ and Dimitri Argyriou², ¹M-I1, Helmholtz Zentrum Berlin, Germany; ²European Spallation Source ESS AB, 22100 Lund, Sweden; ³Renmin University of China, 100872 Beijing, China; ⁴M-I1, Institut Laue-Langevin, 38042 Grenoble Cedex, France

RB08 Influence of filament diameter on superconducting properties of MgB₂ multi-core wires

Michael Reissner^{1*}, Lukas Bulla¹, I Husek², T Melisek² and P Kovac², ¹Institute of Solid State Physics, Vienna University of Technology, Austria; ²Institute of Electrical Engineering, Slovak Academy of Sciences, Slovak

RB09 Kinetic energy density of cooper pairs in Sr doped YBa₂Cu₃O_{7-δ} single crystals

Ana Paula Aguiar De Mendonca^{1*}, Rovan Fernandes Lopes¹, Valdemar Das Neves Vieira¹, Fabio Teixeira Dias¹, Douglas Langie Da Silva¹, Paulo Pureur², Jacob Schaf³, Mauro Melchiades Doria⁴ and Frederik Wolff-fabris⁵, ¹Universidade Federal de Pelotas, Brazil; ²Universidade Federal do Rio Grande do Sul, Brazil; ³Universidade Federal do Rio Grande do Sul, Brazil; ⁴Universidade Federal do Rio de Janeiro, Brazil; ⁵HZ Dresden-Rossendorf, Germany

RB10 Interplay between superconductivity and antiferromagnetism in BaFe_{2-x}Ni_xAs₂ single crystals studied by 57Fe Mossbauer spectroscopy

Julian Andres Munevar Cagigas¹, Hans Micklitz², Chenglin Zhang³, Hui Quian Luo⁴, Pengcheng Dai⁵ and Elisa Baggio-saitovitch^{1*}, ¹Brazilian Center for Research in Physics, Brazil; ²Centro Brasileiro de Pesquisas Fisicas, Brazil; ³Department of Physics, University of Tennessee, USA; ⁴Beijing National Laboratory for Condensed Matter Physics, China; ⁵Department of Physics and Astronomy, University of Tennessee, USA

RB11 Magnetism in superconducting Ba_{0.78}K_{0.22}Fe₂As₂ and EuFe₂As_{1.4}P_{0.6} single crystals studied by Mossbauer spectroscopy

Elisa Baggio-saitovitch¹, Julian Munevar¹, Hans Micklitz¹, Genfu Chen², Chenglin Zhang³, Huiqian Luo⁴ and Pengcheng Dai⁵, ¹Brazilian Center for Research in Physics, Brazil; ²Renmin University of China, China; ³Department of Physics and Astronomy, University of Tennessee, USA; ⁴Beijing National Laboratory for Condensed Matter Physics, China; ⁵Department of Physics and Astronomy, University of Tennessee Neutron Scattering Division, ORNL, USA

RB12 Doping evolution of the in-plane London penetration depth in Fe_{1+y}(Te_{1-x}Se_x) single-crystals

Andrei Diaconu¹, Jin Hu², Tijiang Liu², Bin Qian², Zhiqiang Mao² and Leonard Spinu¹, ¹Advanced Materials Research Institute and Physics Department, University of New Orleans, USA; ²Department of Physics, Tulane University, USA

RB13 Potassium doping effect in double-chain BaFe₂Se₃

Jinke Bao, Yunlei Sun, Wenhe Jiao, Yongkang Luo, Zhu'an Xu and Guanghan Cao*, Department of Physics, Zhejiang University, China

POSTER PRESENTATION

July 12 (Thu)

RB14 Sr₂VO₃FeAs: Hybrid of a magnetic SrVO₃ and a FeAs superconducting layers

Man Jin Eom¹, Jae - Hyun Park¹, Sewoong Na¹, Youn jung Jo², Hu - Jong Lee¹ and Jun Sung Kim^{1*}, ¹Department of Physics, POSTECH, Korea; ²School of Physics and Energy Sciences, KNU, Korea

RB15 Static and dynamic properties of nearly optimally doped superconductor SmFeAsO_{0.86}F_{0.14}

Amitabha Ghoshray^{1*}, Mayukh Majumder¹, Kajal Ghoshray¹, Asok Poddar¹, Chandan Mazumdar¹ and David Berardan², ¹ECMP Division, Saha Institute of Nuclear Physics, Kolkata, India; ²Institut de Chimie Moleculaire et des Materiaux d'Orsay, Institut de Chimie Moleculaire et des Materiaux d'Orsay, Univ. Paris-Sud 11, 91405 Orsay, France

RB16 Effect of d-orbital characters of the Fe magnetic moment on the electronic and magnetic properties of BaFe₂As₂

Hyungju Oh and Hyoung Joon Choi*, Department of Physics and IPAP, Yonsei University, Korea

RB17 Ca(Fe_{1-x}Co_x)₂As₂ under pressure: studies using single crystal neutron diffraction

Karel Prokes¹, B. Ouladdiaf², L. Harnagea³, S. Wurmehl³, B. Buechner³ and D. Argyriou⁴, ¹M-I1, Helmholtz Zentrum Berlin, Germany; ²Institut Laue-Langevin, 38042 Grenoble Cedex, France; ³Leibniz-Institute for Solid State and Materials Research, (IFW)-Dresden, D-01171 Dresden, Germany; ⁴European Spallation Source ESS AB - Box 176, 22100 Lund, Sweden

RB18 Monte Carlo study of the magneto-elastic effects in Fe pnictides

Cesar Jose Calderon Filho^{1*}, Alex Antonelli¹, David Vaknin² and Gaston Eduardo Barberis¹, ¹IFGW, State University of Campinas - UNICAMP, Brazil; ²Ames National Laboratory and Department of Physics, Iowa State University, USA

RB19 Geometrical Vortex Transition in the iron pnictide SmFeAs(O,F)

Philip J.w. Moll^{1*}, Luis Balicas², Janusz Karpinski³, Nikolai Zhigadlo⁴ and Batlogg Bertram⁵, ¹Solid State Physics Laboratory, ETH Zurich, Switzerland; ²National High Magnetic Field Laboratory, Florida State University, USA; ³Solid State Physics, ETH Zurich, Switzerland; ⁴Solid State Laboratory, ETH Zurich, Switzerland; ⁵Solid State Theory, ETH Zurich, Switzerland

RB20 SmFeAsO_{1-x}F_x: Raman scattering and x-ray diffraction study under low temperature and high pressure conditions

Sofia Michaela Souliou^{1*}, Mathieu Le Tacon¹, Andrew C. Walters¹, Chengtian Lin¹, Karl Syassen¹, Bernhard Keimer¹, Gaston Garbarino², Michael Hanfland², Wilson Crichton², Janusz Karpinski³ and Nicolai Zhigadlo³, ¹Max-Planck-Institut fur Festkorperforschung, Heisenbergstr. 1, D-70569 Stuttgart, Germany; ²European Synchrotron Radiation Facility, BP 220, F-38043 Grenoble Cedex, France; ³Laboratory for Solid State Physics, ETH Zurich, CH-8093 Zurich, Switzerland

RB21 Mass renormalization in isostructural Ru- and Fe-pnictides

Philip J.w. Moll^{1*}, Jakob Kanter¹, Ross Mc.donald², Fedor Balakirev², Peter Blaha³, Karlheinz Schwarz³, Zbigniew Bukowski¹, Nikolai D. Zhigadlo¹, Sergiy Katrych¹, Kurt Mattenberger¹, Janusz Karpinski¹ and Bertram Batlogg¹, ¹Solid State Physics Laboratory, ETH Zurich, Switzerland; ²National High Magnetic Field Laboratory, Los Alamos National Laboratory, USA; ³Institute of Materials Chemistry, Vienna University of Technology, Austria

RB22 The role of spin fluctuation for the high Tc superconductivity in LiFeAs, LiFeP, NaFeAs

Geunsik Lee, Hyo Seok Ji and Ji Hoon Shim*, Chemistry, POSTECH, Korea

RB23 DFT+DMFT study on the electronic structure and anisotropy of Sr₂VO₃FeAs superconductor

Hyo Seok Ji and Ji Hoon Shim*, Chemistry, POSTECH, Korea

RB24 Behaviour of Magnetic and structural transitions upon Sr doping in CaFe₂As₂ and EuFe₂As₂

Neeraj Kumar*, Ruta Kulkarni, Sudesh Kumar Dhar and Arumugam Thamizhavel, Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research, Mumbai, India

RB25 Specific heat of the vortex lattice in iron-pnictide superconductors

Miguel Araujo¹ and Pedro Sacramento², ¹CFIF, Instituto Superior Tecnico, TU Lisbon and Department of Physics, University of Evora, Portugal; ²CFIF, Instituto Superior Tecnico, TU Lisbon, Portugal

RB26 Hexagonal superconducting pnictide SrPtAs: an ab initio study

Sonny S. H. Rhim¹, S. J. Youn², Daniel Agterberg³, Michael Weinert³ and Arthur J Freeman¹, ¹Physics and Astronomy, Northwestern University, USA; ²Physics Education and Research Institute of Natural Science, Gyeong Sang National University, Korea; ³Physics, U. Wisconsin-Milwaukee, USA

RB27 Josephson effect in BaKFeAs inter-grain boundary junctions

Sung-hak Hong¹, Sung Hoon Lee¹, Soon-gul Lee^{1*}, Soon-gil Jung², Nam Hoon Lee² and Won Nam Kang², ¹Department of Display and Semiconductor Physics, Korea University, Korea; ²BK21 Physics Division and Department of Physics, Sungkyunkwan University, Korea

RB28 Coexistence of different electronic phases in the K_{0.8}Fe_{1.6}Se₂ superconductor: a bulk-sensitive hard x-rays spectroscopy study

Laura Simonelli^{1*}, Naurang L. Saini², Marco Moretti Sala¹, Y. Mizuguchi³, Y. Takano³, H. Takeya³, T. Mizokawa⁴ and Giulio Monaco¹, ¹ESRF, France; ²Dipartimento di Fisica, Università di Roma "La Sapienza" - P. le Aldo Moro 2, 00185 Roma, Italy; ³National Institute for Materials Science, 1-2-1 Senken, Tsukuba 305-0047, Japan and JST-TRIP, 1-2-1, Japan; ⁴Department of Physics, and Department of Complexity Science and Engineering, University of Tokyo, Japan

RB29 Step towards a ferromagnetic Josephson junction in YBCO/LCMO heterostructures

Soltan Soltan^{1*}, Magdy El-hagary², Hanns-ulrich Habermeier³ and Nasser Alzayed⁴, ¹Physics Department, Faculty of Science, Helwan University, 11792 Helwan, Cairo, Egypt; ²Physics Department, College of Science, Qassim University, P.O. Box 6644 Buraidah 51452, Saudi Arabia; ³Max-Planck-Institute FKF, Heisenbergstrasse 1, 70569-Stuttgart, Germany; ⁴Physics Department, King Saud University, Saudi Arabia

RC: Topological insulators I

July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Mahn-Soo Choi (Korea University, Korea)

RC01 DMFT study of the correlation effects on a topological insulator

Tsuneya Yoshida*, Satoshi Fujimoto and Norio Kawakami, Department of Physics, Kyoto University, Japan

RC02 Self-consistent treatment of fully relativistic effect in the small bismuth clusters Bin ($2 \leq n \leq 7$)

Ely Aprilia^{1*}, Haruki Katou², Junpei Gotou², Shinya Haraguchi², Suprijadi Haryono³ and Tatsuki Oda⁴, ¹Double Degree Program of Kanazawa university-Bandung Institute of Technology, Indonesia; ²Graduate School of Natural Sciences and Technology, Kanazawa University, Japan; ³Faculty of Mathematics and Natural Sciences, Bandung Institute of Technology, Indonesia; ⁴Institute of Science and Engineering, Kanazawa University, Japan

RC03 (Upgraded to oral) Hidden topological order in URu₂Si₂

Tanmoy Das, Theoretical Division, Los Alamos National Laboratory, USA

RC04 Ground-state properties of a two-dimensional correlated topological insulator

Yuto Takenaka* and Norio Kawakami, Department of Physics, Kyoto University, Japan

RC05 (Withdrawn) Magnetic impurity doping effect on bulk Rashba spin splitting system BiTeI

Jeongdae Seo and Jong- Soo Rhyee*, Applied Physics, Kyung Hee University, Korea

RC06 Topological charge pumping effect by the magnetization dynamics on the surface of 3D topological insulators

Hiroaki T Ueda^{1*}, Akihito Takeuchi¹, Gen Tatara¹ and Takehito Yokoyama², ¹Department of Physics, Tokyo

Metropolitan University, Japan; ²Department of Physics, Tokyo Institute of Technology, Japan

RC07 Tuning of carrier type in Mn-doped Bi₂Se₃

Young Ha Choi¹, Nahyun Jo¹, Kyujoon Lee¹, Junpei Kajino², Toshiro Takabatake² and Myung- Hwa Jung^{1*}, ¹Department of Physics, Sogang University, Korea; ²ADSM, Hiroshima University, Japan

RC08 Magnetic edge profile in the Kane-Mele-Hubbard model

Hyeong Jun Lee¹, Moo Young Choi¹ and Gun Sang Jeon^{2*}, ¹Department of Physics and Astronomy and Center for Theoretical Physics, Seoul National University, Korea; ²Department of Physics, Ewha Womans University, Korea

RC09 Theoretical study of spin texture in the Bi thin film

Hiroki Kotaka^{1*}, Fumiuki Ishii² and Mineo Saito², ¹Graduate School of Natural Science and Technology, Kanazawa University, Japan; ²Faculty of Mathematics and Physics, Kanazawa University, Japan

RC10 A recipe for new topological insulators based on bonds, bands, symmetry and heavy atoms

Lukas Muechler¹, Binghai Yan², Stanislav Chadov³, Haijun Zhang⁴, Frederick Casper¹, Shoucheng Zhang⁴ and Claudia Felser^{3*}, ¹Inst. fuer Anorg. Chemie, Johannes Gutenberg - Universitaet Mainz, Germany; ²Bremen Center for Computational Materials Science, Germany; ³Max-Planck-Institut fur Chemische Physik fester Stoffe, Germany; ⁴Department of Physics, Stanford University, USA

RC11 Optimizing the Bi_{2-x}Sb_xTe_{3-y}Se_y solid solutions to approach the intrinsic topological insulator regime

Zhi Ren*, Alexey Taskin, Satoshi Sasaki, Kouji Segawa and Yoichi Ando, ISIR, Osaka University, Japan

RC12 Exploration of three-dimensional rashba materials

Manabu Kanou* and Sasagawa Takao, Materials and Structures Laboratory, Tokyo Institute of Technology, Japan

RC13 Quantum phase transition from normal to topological insulator phase in Na₂IrO₃

Choong H. Kim¹, Heung Sik Kim¹, Hogyun Jeong², Hosub Jin³ and Jaejun Yu^{1*}, ¹Department of Physics and Astronomy, Seoul National University, Korea; ²Korea Institute of Science and Technology Information, Korea; ³Department of Physics and Astronomy, Northwestern University, USA

RC14 Self-assembled nanowire with giant Rashba spin splitting

Jewook Park, Min-cherl Jung, Sung Won Jung and Han Woong Yeom*, Department of physics, POSTECH, Center for atomic wires and layers(CAWL), Korea

RC15 Ab initio study of topological surface state on Sb (111) surface with iron impurities

Jinhee Han, Hyungjun Lee and Hyoung Joon Choi*, Department of Physics and IPAP, Yonsei University, Korea

RC16 Topological insulating phase in cubic system: tight-binding approach

Hosub Jin, Jino Im and Arthur J. Freeman, Department of Physics and Astronomy, Northwestern University, USA

RC17 Topological insulator phase and Kitaev-like anisotropic exchange interactions in Li₂IrO₃

Heung-sik Kim¹, Choong H. Kim¹, Hogyun Jeong², Hosub Jin³ and Jaejun Yu^{1*}, ¹Department of Physics and Astronomy, Seoul National University, Korea; ²Korea Institute of Science and Technology Information, Korea; ³Department of Physics and Astronomy, Northwestern University, USA

RC18 Structural and electrical properties of (111) oriented half-Heusler La-Pt-Bi thin films

Nozomi Sugimoto^{1*}, Yohei Niimi¹, Tetsuya Miyawaki¹, Tatsuhiko Yoshihara¹, Naoto Fukatani¹, Kenji Ueda¹, Nobuo Tanaka² and Hidefumi Asano¹, ¹Department of Crystalline Materials Science, Nagoya University, Japan; ²EcoTopia Institute, Nagoya University, Japan

RC19 First-principles study of spin texture in the multilayer graphene on Ni(111)

Fumiuki Ishii^{1*}, Hiroki Kotaka², Keisuke Sawada² and Mineo Saito¹, ¹Faculty of Mathematics and Physics, Kanazawa University, Japan; ²Graduate School of Natural Science and Technology, Kanazawa University, Japan;

RD: Heavy fermions III

July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: S. Wirth (MPI, Germany)

RD01 Single crystal growth, electrical and magnetic properties in ROs₂Al₁₀ (R=rare earth)

Masahito Sakoda^{1*}, Kazuhiro Kubota¹, Eiichi Matsuoka¹, Hitoshi Sugawara¹, Takahiro Sakurai², Hitoshi Ohta³, Tatsuma D. Matsuda⁴ and Yoshinori Haga⁴, ¹Department of Physics, Kobe University, Kobe 657-8501, Japan; ²Center for Supports to Research and Education Activities, Kobe University, Kobe 657-8501, Japan; ³Molecular Photoscience Research Center, Kobe University, Kobe 657-8501, Japan; ⁴Advanced Science Research Center, Japan Atomic Energy Agency, Tokai, Ibaraki 319-1195, Japan

RD02 Anisotropic transport and magnetic properties of CeZn₁₁ single crystals^{1\$}

H. Hodovanets, S. L. Bud'ko and P. C. Canfield*, Department of Physics and Astronomy, Ames Laboratory/Iowa State University, Ames IA, USA

RD03 (Upgraded to oral) Shubnikov-de Haas oscillation in PuIn₃

Yoshinori Haga¹, Oscar Ayala-valenzuela², Ross McDonald², Chuck Mielke², Eric D. Bauer², J N Mitchell², P. H. Tobash², Joe D. Thompson² and Zachary Fisk¹, ¹Advanced Science Research Center, Japan Atomic Energy Agency, Japan; ²Los Alamos National Laboratory, USA

RD04 Quadrupolar ordering in a caged compound PrOs₂Zn₂₀

Kazuhei Wakiya¹, Naohiro Nagasawa¹, Keisuke T Matsumoto¹, Takahiro Onimaru¹, Kazunori Umeo² and Toshiro Takabatake¹, ¹AdSM, Hiroshima University, Higashi-Hiroshima, Japan; ²N-BARD, Hiroshima University, Higashi-Hiroshima, Japan

RD05 Spin-triplet superconductivity induced by ferromagnetic fluctuations in UCoGe

Taisuke Hattori^{1*}, Yoshihiko Ihara¹, Kosuke Karube¹, Yusuke Nakai², Kenji Ishida², Yasuhiro Tada¹, Satoshi Fujimoto¹, Norio Kawakami¹, Kazuhiko Deguchi³, Noriaki K Sato³ and Isamu Satoh⁴, ¹Department of Physics, Graduate School of Science, Kyoto University, Japan; ²Department of Physics, Graduate School of Science, Kyoto University, TRIP, JST, Japan; ³Department of Physics, Graduate School of Science, Nagoya University, Japan; ⁴Institute for Materials Research, Tohoku University, Japan

RD06 Competitive magnetic properties between the different anisotropic SDW phases in heavy-fermion system Ce_{0.87}La_{0.13}(Ru_{1-x}Rh_x)₂Si₂

Hiroaki Okamoto¹, Eiichiro Harada¹, Yusuke Amakai¹, Shigeyuki Murayama^{1*}, Hideaki Takano¹, Naoki Momono¹, Kazuyuki Matsubayashi² and Yoshiya Uwatoko², ¹Graduate School of Engineering, Muroran Institute of Technology, Japan; ²Institute for Solid State Physics, University of Tokyo, Japan

RD07 Elastic constant of SmOs₄Sb₁₂ under high magnetic field

Tatsuya Yanagisawa^{1*}, Shota Mombetsu¹, Mitsuhiro Akatsu², Yuichi Nemoto², Shadi Yashin³, Sergei Zherlitsyn³ and Joachim Wosnitza³, ¹Department of Physics, Hokkaido University, Japan; ²Graduate School of Science and Technology, Niigata University, Japan; ³Dresden High Magnetic Field Laboratory, Forschungszentrum Dresden-Rossendorf, Germany

RD08 27Al-NMR study for critical phenomena of metamagnetic transition in UCoAl

Kosuke Karube^{1*}, Taisuke Hattori¹, Kenji Ishida¹, Takuya Asai², Takemi Komatsubara³ and Noriaki Kimura², ¹Department of Physics, Graduate School of Science, Kyoto University, Japan; ²Department of Physics, Graduate School of Science, Tohoku University, Japan; ³Center for Low Temperature Science, Tohoku University, Japan

RD09 Hybridization gap and the hidden order in the heavy fermion Kondo lattice URu₂Si₂

Wan Kyu Park^{1*}, Paul H. Tobash², Filip Ronning², Eric D. Bauer², John L. Sarrao², Joe D. Thompson² and Laura H. Greene¹, ¹University of Illinois at Urbana-Champaign, Urbana, IL 61801, USA; ²Los Alamos National Laboratory, Los Alamos, NM 87545, USA

RD10 Resonant Raman effect on LaRu₂Al₁₀ and CeRu₂Al₁₀

Katsuaki Nagano¹, Takumi Hasegawa¹, Norio Ogita¹, Masayuki Udagawa¹, Hiroshi Tanida², Daiki Tanaka², Masafumi Sera², Takashi Nishioka³ and Masahiro Matsumura³, ¹Graduate School of Integrated Arts and Sciences, Hiroshima University, Higashi-Hiroshima 739-8521, Japan; ²Institute for Advanced Material Research, Hiroshima University, Higashi-Hiroshima 739-8530, Japan; ³Graduate School of Advanced Sciences of Matter, Kouchi University, Kochi 780-8520, Japan

RD11 Magnetic properties of β-US2 single crystals

Etsushi Yamamoto^{1*}, Shugo Ikeda², Hironori Sakai¹, Tatsuma D. Matsuda¹, Naoyuki Tateiwa¹, Yoshinori Haga¹, Yoshichika Onuki³ and Zachary Fisk⁴, ¹ASRC, Japan Atomic Energy Agency, Japan; ²Graduate School of Material Science, University of Hyogo, Japan; ³Graduate School of Science, Osaka University, Japan; ⁴University of California, USA

RD12 Evidence of nodal gap structure in the skutteride superconductor PrPt₄Ge₁₂

Jing Lei Zhang¹, Lin Jiao¹, Michael Nicklas², Roman Gumeniuk², Ye Chen¹, Lu Kai Guo¹, Li Na Wang¹, Bin Hao Fu¹, Walter Schnelle², Helge Rosner², Andreas Leithe-jasper², Yuri Grin², Frank Steglich² and Hui Qiu Yuan^{1*}, ¹Department of Physics, Zhejiang University, China; ²Max Planck Institute for Chemical Physics of Solid, Germany

RD13 Mossbauer spectroscopy of Fe doping valence fluctuating α-YbAlB₄

Yui Sakaguchi^{1*}, Shugo Ikeda¹, Kentaro Kuga², Keita Sone², Satoru Nakatsuji² and Hisao Kobayashi¹, ¹Graduate School of Material Science, University of Hyogo, Japan; ²Institute for Solid State Physics, University of Tokyo, Japan

RD14 Neutron scattering study on f-electron states of PrCu₄Au

Hiroki Kobayashi¹, Kazuaki Iwasa^{1*}, Kotaro Saito¹, Keisuke Tomiyasu¹, Daichi Kawana², Shuai Zhang³, Yosikazu Isikawa⁴, Jean - Michel Mignot⁵, Gilles Andre⁵, Alexander I. Kolesnikov⁶, Andrei T. Savici⁶ and Garrett E. Granroth⁶, ¹Department of Physics, Tohoku University, Sendai 980-8578, Japan; ²Condensed Matter Research Center and Photon Factory, Institute of Materials Structure Science, KEK, Tsukuba 305-0801, Japan; ³Department of Applied Chemistry, Hiroshima University, Higashi-Hiroshima 739-8527, Japan; ⁴Graduate School of Science and Engineering, University of Toyama, Toyama 930-8555, Japan; ⁵Laboratoire Leon Brillouin, CEA-CNRS, CEA/Saclay, 91191 Gif sur Yvette, France; ⁶Neutron Sciences D., Oak Ridge National Laboratory, Oak Ridge, TN 37831, USA

RD15 Effect of pressure on the YbNi₃Ga₉ single crystal

T. Hirayama¹, K. Matsubayashi¹, T. Yamashita², S. Ohara² and Y. Uwatoko^{1*}, ¹University of Tokyo, Japan; ²Nagoya Institute of Technology, Japan

RD16 Fermi surfaces in the mixed valent Yb system

Hisatomo Harima*, Department of Physics, Kobe University, Japan

RD17 Unusual heavy fermion behavior in PrTr₂Al₂₀ (T = Nb, Ta) associated with Γ3 quadrupolar degrees of freedom

Ryuji Higashinaka, Akihiro Nakama, Ryoichi Miyazaki, Yuji Aoki and Hideyuki Sato, Department of Physics, Tokyo Metropolitan University, Japan

RD18 Tuning of the heavy-fermion ground state in YbNi₃X₉ (X=Al, Ga) by substitution

Shigeo Ohara*, Hiroshi Kono and Tetsuro Yamashita, Graduate School of Engineering, Nagoya Institute of Technology, Nagoya 466-8555, Japan

RD19 Pressure effect studies in Ce₂T₃Ge₅ (T=Rh, Pd, Ir) by electrical resistivity

Miho Nakashima¹, Toshiyuki Uchiyama¹, Toru Kawata¹, Yasushi Amako¹, Yusuke Hirose², Honda Fuminori², Rikio Settai² and Onuki Yoshichika², ¹Department of Physics, Faculty of Science, Shinshu University, Japan; ²Graduate School of Science, Osaka University, Japan

POSTER PRESENTATION**July 12 (Thu)****RD20 Photoemission study on new Kondo lattice compounds $\text{YbNi}_3(\text{Ga}_{1-x}\text{Al}_x)_9$**

Yuki Utsumi¹, Hitoshi Sato², Shigeo Ohara³, Tetsuro Yamashita³, Kojiro Mimura⁴, Satoru Motonami⁴, Masashi Arita², Shigenori Ueda⁵, Keisuke Kobayashi⁵, Kenya Shimada², Hirofumi Namatame² and Masaki Taniguchi², ¹*Graduate School of Science, Hiroshima University, Japan; ²Hiroshima Synchrotron Radiation Center, Hiroshima University, Japan; ³Graduate School of Engineering, Nagoya Institute of Technology, Japan; ⁴Graduate School of Engineering, Osaka Prefecture University, Japan; ⁵NIMS Beamline Station at SPring-8, National Institute for Materials Science, Japan*

RD21 Heavy-fermion properties of $\text{YbCu}_{5-x}\text{Au}_x$ ($x = 0.5, 0.6, 0.7$)

Ivan Curiak^{1*}, Mauro Giovannini², Mariana Zapotokova³ and Marian Reiffers¹, ¹*Institute of Experimental Physics, Slovak Academy of Science, Watsonova 47, 040 01, Kosice, Slovakia; ²CNR-SPIN and Department of Chemistry, University of Genoa, Via Dodecaneso 31, 16 146, Genoa, Italy; ³Institute of Experimental Physics, Slovak Academy of Science, Watsonova 47, 040 01, Kosice, Slovakia*

RD22 Magnetic properties of heavy-fermion compounds $\text{Ce}_{1-x}\text{Lu}_x\text{Ru}_2\text{Si}_2$

Toru Sekiguchi¹, Yusuke Amakai¹, Shigeyuki Murayama^{1*}, Hideaki Takano¹, Naoki Momono¹, Kazuyuki Matsubayashi² and Yoshiya Uwatoko², ¹*Graduate School of Engineering, Muroran Institute of Technology, Japan; ²Institute for Solid State Physics, University of Tokyo, Japan*

RD23 Moment-bearing Tb substitution in CePt_2Si_2

Moise Bertin Tchoula Tchokonte^{1*}, Zwelithini Melford Mahlubi¹, Paul De Villiers Du Plessis², Andre Michael Strydom² and Dariusz Kaczorowski³, ¹*Physics, University of the Western Cape, South Africa; ²Physics, University of Johannesburg, South Africa; ³Physics, Institute of Low Temperature and Structure Research, Polish Academy of Sciences., Poland*

RD24 Heavy Fermion Behavior of $\text{Yb}_2\text{Ni}_{12}\text{P}_7$ Studied by ^{31}P NMR

Takehide Koyama¹, Kyohei Sugiura¹, Koichi Ueda¹, Takeshi Mito¹, Takao Kohara¹, Tomohito Nakano², Ryohei Satoh³, Katsuhiko Tsuchiya³ and Naoya Takeda², ¹*Graduate School of Material Science, University of Hyogo, Japan; ²Faculty of Engineering, Niigata University, Japan; ³Graduate School of Science and Technology, Niigata University, Japan*

RD25 Electronic structure of RCu_2Si_2 ($\text{R}=\text{Yb, Y}$) studied by soft x-ray angle-resolved photoemission spectroscopy

Akira Yasui¹, Shin-ichi Fujimori¹, Ikuto Kawasaki², Tetsuo Okane¹, Yukiharu Takeda¹, Yuji Saitoh¹, Hiroshi Yamagami³, Akira Sekiyama⁴, Rikio Settai⁵, Tatsuma D Matsuda⁶, Yoshinori Haga⁶ and Yoshichika Onuki⁵, ¹*Condensed Matter Science Division, Japan Atomic Energy Agency, Japan; ²Advanced Meson Science Laboratory, RIKEN Nishina Center for Accelerator-Based Science, Japan; ³Department of Physics, Kyoto Sangyo University, Japan; ⁴Division of Materials Physics, Osaka University, Japan; ⁵Department of Physics, Osaka University, Japan; ⁶Advanced Science Research Center, Japan Atomic Energy Agency, Japan*

RD26 Anomalous increase of TC in UGa_2 under pressure

Ladislav Havela¹, A. Kolomiets², J. Prchal¹ and A. V. Andreev³, ¹*Department of Condensed Matter Physics, Charles University, Czech Republic; ²Department of Physics, Lviv Polytechnic National University, Ukraine; ³Institute of Physics, Academy of Sciences of the Czech Republic, Czech Republic*

RE: Non-fermi liquids and quantum phase transitions I

July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Ki-Seok Kim (POSTECH, Korea)

RE01 Engineered p-d exchange interaction of coupled double diluted magnetic quantum dots

Eun-young Kim, *Seoul National University, Korea*

RE02 Quasi-particle localization by disorder in an incompressible fractional quantum Hall state

Partha Goswami*, *Physics department, D.B.C. College(University of Delhi), New Delhi, India*

POSTER PRESENTATION**July 12 (Thu)****RE03 NpCoGe, near quantum criticality?**

Eric Colineau*, Rachel Eloirdi, Jean-christophe Griveau, Piotr Gacynski and Alexander Shick, *European Commission, Joint Research Centre, Institute for Transuranium Elements, Germany*

RE04 Pressure and magnetic-field induced non-Fermi-liquid behavior in $\text{YbCo}_2\text{Zn}_{20}$

Kazuyuki Matsubayashi^{1*}, Rina Yamanaka¹, Yuta Saiga², Tatsuya Kawae³ and Yoshiya Uwatoko¹, ¹*Institute for Solid State Physics, The University of Tokyo, Japan; ²Institute for Advanced Materials Research, Hiroshima University, Japan; ³Department of Applied Quantum Physics, Faculty of Engineering, Kyushu University, Japan*

RE05 Relationship between single-particle excitation and spin excitation at the Mott transition

Masanori Kohno*, *WPI Center for Materials Nanoarchitectonics, National Institute for Materials Science, Japan*

RE06 Quantum criticality in Kondo quantum dot coupled to 2D topological insulator

Chung-hou Chung* and Salman Silotri, *Electrophysics Dept., National Chiao-Tung University, HsinChu, Taiwan, R.O.C., Taiwan*

RE07 Nature of insulator-metal-insulator transitions in the ionic Hubbard model

Aaram Joo Kim¹, Moo Young Choi¹ and Gun Sang Jeon^{2*}, ¹*Department of Physics and Astronomy, Center for Theoretical Physics, Seoul National University, Korea; ²Department of Physics, Ewha Womans University, Korea*

RE08 Variational cluster approach to the Hubbard model on the honeycomb lattice

Kazuhiro Seki* and Yukinori Ohta, *Department of Physics, Chiba University, Japan*

RE09 Onset of magnetic order in $\text{U}_2(\text{Ni}_{1-x}\text{Fe}_x)_2\text{Sn}$

Silvie Maskova^{1*}, Ladislav Havela¹, Aleksandre Kolomiets², Alexander V. Andreev³, Heinz Nakotte⁴, Joe Peterson⁴, Yuri Skourski⁵, Shadi Yasin⁵, Sergei Zherlitsyn⁵, Joachim Wosnitza⁵ and Khrystyna Miliyanchuk⁶, ¹*Department of Condensed Matter Physics, Charles University in Prague, Czech Republic; ²Department of Physics, Lviv Polytechnic National University, Ukraine; ³Institute of Physics, ASCR, Czech Republic; ⁴Department of Physics, New Mexico State University, USA; ⁵Dresden High Magnetic Field Laboratory, Helmholtz-Zentrum Dresden-Rossendorf, Germany; ⁶Faculty of Chemistry, Ivan Franko National University, Lviv, Ukraine*

RE10 Magnetic phase diagram of UCoAl

Tatsuwa D. Matsuda¹, Dai Aoki², Naoyuki Tateiwa¹, Etsushi Yamamoto¹, Yoshinori Haga¹, Yoshichika Onuki³, Jacques Flouquet² and Zachary Fisk⁴, ¹*ASRC, JAEA, Japan; ²INAC/SPSMS, CEA-Grenoble, France; ³Graduate School of Science, Osaka University, Japan; ⁴University of California, USA*

RE11 Renormalization-group exponents for competitions between inter-electronic and phonon-mediated interactions in ladder systems

Wen-min Huang^{1*}, Yiwei Cai² and Hsiu-hau Lin², ¹*Physics Division, National Center for Theoretical Sciences, Taiwan; ²Department of Physics, National Tsing Hua University, Taiwan*

RE12 Crystal growth and magnetic order of Ni-doped CePdAl

Veronika Fritsch^{1*}, Sarah Woitschach², Oliver Stockert², Michael M. Koza³, Silvia Capelli³ and Hilbert V. Loeheynes⁴, ¹*Physikalisch-es Institut, Karlsruher Institut fuer Technologie, 76131 Karlsruhe, Germany; ²Max-Planck-Institut fuer Chemische Physik fester Stoffe, 01187 Dresden, Germany; ³Institut Laue-Langevin, 38042 Grenoble, France; ⁴Physikalisch-es Institut and Institut fuer Festkoerperphysik, Karlsruher Institut fuer Technologie, 76131 Karlsruhe, Germany*

RE13 Transport properties of $\text{Ho}_{1-x}\text{Lu}_x\text{B}_{12}$ solid solutions

Slavomir Gabani^{1*}, Ivan Batko¹, Marianna Batkova¹, Karol Flachbart¹, Emil Gazo¹, Gabriel Pristas¹, Iveta Takacova¹, Alexey Bogach², Nickolay Sluchanko² and Natalya Shitsevalova³, ¹*Centre of Low Temperature Physics, Institute of Experimental Physics SAS, Slovak; ²General Physics Institute RAS, Russia; ³Institute for Problems of Materials Science NASU, Ukraine*

RE14 (Withdrawn) Low temperature thermal and electrical transport properties of $ZrZn_2$ in high magnetic field
Yang Zou^{1*}, Michael Sutherland¹, Stephen Hayden² and F. Malte Grosche¹, ¹Department of Physics, University of Cambridge, United Kingdom; ²Department of Physics, University of Bristol, United Kingdom

RE15 (Withdrawn) Non fermi liquid behaviour in YFe_2Ge_2
Yang Zou*, Zhuo Feng, Sven Friedemann and F. Malte Grosche, Department of Physics, University of Cambridge, United Kingdom

RF: Theory of strongly correlated matter II

July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: M. Vojta (MPI, Germany)

RF01 Magnetic orderings at the interface between Mott insulator and band insulator
Suguru Ueda^{1*}, Norio Kawakami¹ and Manfred Sigrist², ¹Department of Physics, Kyoto University, Japan; ²Theoretische Physik, ETH Zurich, Switzerland

RF02 Strong electron correlation in Cu-doped CaO nanocolloid
Nguyen Thuy Trang¹, Pham Thanh Cong², Hoang Nam Nhat^{3*}, ¹Faculty of Physics, Vietnam National University, University of Natural Sciences, Viet Nam; ²Physikalisches Institut, Goethe-Universität Frankfurt, Germany; ³Faculty of Technical Physics and Nanotechnology, Vietnam National University, University of Engineering and Technology, Viet Nam

RF03 The book-keeping fermion analysis of the double exchange model with antiferromagnetic background
Kyohei Nakano^{1*}, Robert Eder², Yukinori Ohta¹ and Piotr Wrobel³, ¹Department of Physics, Chiba university, Japan; ²Institute for Solid State Physics, Karlsruhe Institute of Technology, Germany; ³Institute for Low Temperature and Structure Research, Poland

RF04 Phonon Induced Thermodynamic Properties of $La_{1-x}Ca_xCoO_3$
Rasna Thakur*, Rajesh K. Thakur and N.K. Gaur, Department of Physics, Barkatullah University, Bhopal, India

RF05 Dynamical antiferromagnetic phase transition after the quantum quench in the fermionic Hubbard model
Naoto Tsuji* and Philipp Werner, Institute for Theoretical Physics, ETH Zurich, Switzerland

RF06 Itinerant magnetism in the hubbard model within the dynamical cluster approximation
Unjong Yu*, GIST college, Gwangju Institute of Science and Technology, Korea

RF07 First principles DFT+U method for strongly correlating electronic structure systems
Tomoyuki Hamada¹, Takahisa Ohno² and Sadamichi Maekawa³, ¹Central Research Laboratory, Hitachi Ltd., JST-CREST, Japan; ²National Institute of Materials Research, Japan; ³ASRC, JAEA, JST-CREST, Japan

RF08 (Moved to other session) Correlation effect in ferromagnetic 3d transition metals
Muneyuki Nishishita¹, Sudhakar Pandey² and Dai Hirashima^{1*}, ¹Nagoya University, Japan; ²APTPC, Korea

RF09 Mott transition in frustrated Hubbard model with spatial anisotropy: Cellular dynamical mean field study
Tomoko Kita^{1*}, Yuta Furukawa¹, Takuma Ohashi² and Norio Kawakami¹, ¹Department of Physics, Kyoto University, Japan; ²Department of Physics, Osaka University, Japan

RF10 Spin-nematic and -singlet states in the Mott insulator phase of the $S=1$ two-dimensional Bose-Hubbard model
Yuta Toga¹, Hiroki Tsuchiura¹, Makoto Yamashita² and Hisatoshi Yokoyama³, ¹Department of Applied Physics, Tohoku University, Japan; ²NTT Basic Research Laboratories, NTT Corporation, Japan; ³Department of Physics, Tohoku University, Japan

RF11 Dynamical instability in two-component bosonic systems in an optical lattice
Rui Asaoka¹, Yuta Toga¹, Hiroaki Tsuchiura¹ and Makoto Yamashita², ¹Department of Applied Physics, Tohoku University, Japan; ²NTT Basic Research Laboratories, NTT Corporation, Japan

RF12 Mechanism for the high Neel temperature in $SrTcO_3$
Ashis Kumar Nandy¹, S. Middey¹, Priya Mahadevan^{2*} and D. D. Sarma³, ¹Centre for Advanced Materials, Indian Association for the Cultivation of Science, India; ²S.N. Bose National Centre for Basic Sciences, India; ³Solid State and Structural Chemistry Unit, Indian Institute of Science, India

RF13 Spin-spectral-weight distribution and energy range of the parent compound La_2CuO_4
Jose Carmelo¹, Miguel Araujo², Steven White³ and Maria Sampaio¹, ¹Departamento of Physics, University of Minho, Portugal; ²Departamento of Physics, University of Evora, Portugal; ³Departamento of Physics, University of California, USA

RF14 J_1J_2 anti-ferromagnetic heisenberg model on bilayer honeycomb lattice
Mojtaba Shoja Shabankah and Farhad Shahbazi, Physics, Isfahan University Of Technology, Iran

RF15 A hybrid exchange density functional study of $La_{1-x}Ca_xMnO_3$
Romi Kaur Korotana¹, Leandro Liborio¹, Giuseppe Mallia¹, Zsolt Gercsi² and Nicholas Harrison¹, ¹Chemistry, Imperial College London, United Kingdom; ²Physics, Imperial College London, United Kingdom

RF16 (Withdrawn) Magnetic properties of $GdFe_{11}Ti$ via first principal calculations.
E. E. Kokorina*, M. V. Medvedev and I. A. Nekrasov, Laboratory of Theoretical Physics, Institute of Electrophysics, Russia

RF17 (Withdrawn) Mott transition of ultracold Fermi-Fermi mixtures in optical lattices
Takahiro Ooi* and Seiichiro Suga, University of Hyogo, Japan

RG: Theory of strongly correlated matter III

July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Jung Hoon Han (Sungkunkwan University, Korea)

RG01 Anisotropy in a high Landau level due to effective electron-electron interactions
Orion Ciftja, Prairie View A&M University, USA

RG02 Bipolaron-Bipolaron interaction in many electron Holstein-Hubbard model
Monodeep Chakraborty and B. I. Min, Department of Physics, Pohang University of Science and Technology, Korea

RG03 Partial disorder in an Ising-spin Kondo lattice model on a triangular lattice
Hiroaki Ishizuka* and Yukitoshi Motome, Department of Applied Physics, University of Tokyo, Japan

RG04 Basis reduction in the exact diagonalization method for the dynamical mean-field theory
Hyeong-do Kim*, Beamline Division, Pohang Accelerator Laboratory, Korea

RG05 Electronic Structure of ternary stannides RRu_4Sn_6 ($R=Y, La, Pr, Ce,$ and Gd) compounds
Saad Elgazar¹, A. M. Strydom¹ and P. M. Oppenee², ¹Physics, Johannesburg University, South Africa; ²Physics, Uppsala University, Sweden

RG06 (Withdrawn) Local correlation effects in Mn doped GaAs
Igor Di Marco*, Olle Eriksson and Patrik Thunstrom, Physics and Astronomy - Materials Theory, Uppsala University, Sweden

RG07 First-principles study on noncollinear magnetism and effects of spin-orbit coupling in 5d pyrochlore oxide $Cd_2Os_2O_7$
Hiroshi Shinaoka, Takashi Miyake and Shoji Ishibashi, Nanosystem Research Institute, National Institute of Advanced Industrial Science and Technology, Japan

RG08 Nonequilibrium states and I-V characteristics in one-dimensional band and Mott insulators attached to electrodes
Yasuhiro Tanaka* and Kenji Yonemitsu, Institute for Molecular Science, Japan

POSTER PRESENTATION

July 12 (Thu)

- RG09 Enhancement of charge ordering by Zeeman effect in one-dimensional molecular conductors**
Hideo Yoshioka¹, Hitoshi Seo² and Yuichi Otsuka³, ¹Department of Physics, Nara Women's University, Japan; ²Condensed Matter Theory Laboratory, RIKEN, Japan; ³Advanced Institute for Computational Science, RIKEN, Japan
- RG10 Contribution of electron-lattice and spin-orbit coupling to the insulator-metal transition in VO₂ and Sr₂IrO₄**
Jongseok Lee¹, K. Shibus², Y. Krockenberger², K. S. Takahashi², M. Kawasaki³ and Y. Tokura³, ¹Department of Photonic and Applied Physics, Gwangju Institute of Science and Technology, Korea; ²Cross-Correlated Materials Research Group (CMRG) and Correlated Electron Research Group (CERG), RIKEN, Japan; ³Department of Applied Physics, University of Tokyo, Japan
- RG11 Multipole moments at Pr-site and electric field gradients at Sb-site in PrOs₄Sb₁₂**
Takeshi Goho* and Hisatomo Harima, Department of Physics, Kobe University, Nada, Kobe 657-8501, Japan
- RG12 The effect of pairing fluctuations and disorder on the BCS-BEC crossover**
Pinaki Majumdar, Harish-Chandra Research Institute, India
- RG13 Transport properties of ferromagnetic material with Anderson-Hubbard centers**
Yuriy Skorenky*, Oleksandr Kramar and Leonid Didukh, Physics Department, Ternopil National Technical University, Ukraine
- RG14 First principles studies of organic charge transfer salts**
Harald O. Jeschke, Anthony Jacko and Roser Valenti, Institut für Theoretische Physik, Universität Frankfurt, Germany
- RG15 Dynamics of strongly correlated Fermi systems: The effects of pair-excitations and exchange**
Martin Panholzer¹*, Eckhard Krotscheck², Helga M Boehm², Robert Holler² and Thomas Lichtenegger², ¹Johannes Kepler University Linz, Austria; ²Institut for Theoretical Physics, Johannes Kepler University Linz, Austria
- RG16 The induced effects of the Dzyaloshinskii-Moriya interaction on the thermal entanglement**
Saeed Mahdavifar*, Department of Physics, University of Guilan, Iran
- RG17 Magneto-polaronic effects in molecular transistors as the consequence of quantum uncertainty of the displacement of vibrating quantum dot**
Glib A(alexandrovich) Skorobagatko¹*, Sergey I. Kulichin², Ilya V. Krive³ and Robert I. Shekhter⁴, ¹Department of Theoretical Physics, B.Verkin ILTPE of NAS of Ukraine, Kharkov, Ukraine; ²Department of Theoretical Physics, B.Verkin ILTPE of NAS of Ukraine, Kharkov, Ukraine; ³Department of Theoretical Physics, B.Verkin ILTPE of NAS of Ukraine, Ukraine; ⁴Department of Physics, University of Gothenburg, SE-41296, Gothenburg, Sweden
- RG18 Defect states and electron correlations in multi-orbital Mott insulators**
Adolfo Avella¹*, Peter Horsch² and Andrzej Oles³, ¹Dipartimento di Fisica 'E.R. Caianiello', Università degli Studi di Salerno, Italy; ²Max Planck Institute for Solid State Research, Stuttgart, Germany; ³Jagellonian University, Krakow, Poland

RH: Theory, spin, magnetic materials

July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Priya Mahadevan (S.N.Bose National Centre for Basic Sciences, India)

- RH01 Magnetism of the noncentrosymmetric compound CeNiC₂-pressure effects**
Susumu Katano*, Toshiaki Kobayashi and Tohru Yoshida, Graduate School of Science and Engineering, Saitama University, Japan
- RH02 Atomic scale disorder driven bicritical region in Sm_{0.5}(Ca_{1-x}Sr_x)_{0.5}MnO₃**
Saurav Giri¹*, Sk. Sabyasachi¹, S. Majumdar¹, S. Das² and V. S. Amaral³, ¹Solid State Physics, Indian Association for the Cultivation of Science, India; ²Department of Physics and CICECO, University of Aveiro, Portugal; ³Department of Physics and CICECO, University of Aveiro, India

POSTER PRESENTATION

July 12 (Thu)

- RH03 11B-NMR study on Shastry Sutherland system TbB₄**
Tomoki Muto¹, Takayuki Goto¹, Akira Oosawa¹, Shunsuke Yoshii², Takahiko Sasaki³, Shinji Michimura⁴, Fumitoshi Igai⁴ and Toshiro Takabatake⁴, ¹Department of Physics, Sophia University, Japan; ²CINTS Tohoku University, Japan; ³Institute for Materials Research, Tohoku University, Japan; ⁴ADSM, Hiroshima University, Japan
- RH04 Magnetotransport property of the hole-doped delafossite CuCr_{0.9}Mg_{0.05}O₂ with a spin-3/2 antiferromagnetic triangular sublattice**
Tetsuji Okuda¹*, Satoshi Oozono¹, Takumi Kihara² and Masashi Tokunaga², ¹Kagoshima University, Japan; ²The University of Tokyo, ISSP, Japan
- RH05 (Moved to other session) Lifshitz transition with interactions in high magnetic fields: application to CeIn₃**
Pedro Schlottmann*, Department of Physics, Florida State University, USA
- RH06 Novel colossal magnetoresistance in NaCr₂O₄**
Hiroya Sakurai¹*, Taras Kolodiaznyi¹, Yuichi Michie² and Eiji Takayama-muromachi², ¹Superconducting Properties Unit, National Institute for Materials Science, Japan; ²National Institute for Materials Science, Japan
- RH07 Low field study of Hall effect in GdB₆**
M. A. Anisimov¹*, A. V. Bogach¹, V. V. Glushkov¹, S. V. Demishev¹, N. A. Samarin¹, N. Yu. Shitsevalova², A. V. Levchenko², V. B. Filipov² and N. E. Sluchanko¹, ¹Low Temperatures and Cryogenic Engineering Dept., A.M.Prokhorov General Physics Institute of RAS, Russia; ²Institute for Problems of Materials Science NAS, Ukraine
- RH08 Theoretical study of structures and mechanical properties of M-type hexagonal ferrites BaFe₁₂O₁₉**
Wonha Moon*, Soyeon Kim, Heejung Lee, Jaehoon Yeom, Sangwon Lee and Seok Bae, LG innotek, Korea
- RH09 Nonlinear susceptibility of gadolinium near curie temperature**
Takashi Shirane* and Shohei Sakurai, Sendai National College of Technology, Japan
- RH10 Electron correlation and dynamical Jahn-Teller effect in orbitally degenerate system**
Joji Nasu and Sumio Ishihara*, Department of Physics, Tohoku University, Japan
- RH11 High-field NMR study on the charge in stability in quantum spin system Cu₃Mo₂O₉**
Keita Misoka¹, Takayuki Goto¹*, Haruhiko Kuroe¹, Tomoyuki Sekine¹, Takahiko Sasaki¹, Masashi Hase³, Kunihiko Oka⁴, Toshimitsu Ito₄ and Hiroshi Eisaki⁴, ¹Department of Physics, Sophia University, Japan; ²Institute for Materials Research, Tohoku University, Japan; ³Department of Physics, National Institute for Materials Science, Japan; ⁴National Institute of Advanced Industrial Science and Technology, Japan
- RH12 Anisotropic spin excitations in spin-Peierls CuGeO₃**
Kazuhiko Ikeuchi¹, Fumio Mizuno², Ryoichi Kajimoto¹, Yasuhiro Inamura³, Mitsutaka Nakamura³, Kenji Nakajima³, Masaki Fujita⁴, Kazuya Aizawa³ and Masatoshi Arai³, ¹Research Center for Neutron Science and Technology, Comprehensive Research Organization for Science and Society, Japan; ²Department of Physics, Tohoku University, Japan; ³Neutron Science Section, J-PARC Center, Japan; ⁴Institute for Material Research, Tohoku University, Japan
- RH13 Neutron inelastic scattering on spin-peierls system TiOBr**
Tetsuya Yokoo¹, Shinichi Itoh¹, Daichi Kawana¹ and Jun Akimitsu², ¹High Energy Accelerator Research Organization, Japan; ²Aoyama Gakuin University, Japan
- RH14 Physical properties of the novel triangular-lattice silver oxides Ag₂MO₂ (M = Co, Ga, Rh)**
Hiroyuki Yoshida and Masaaki Isobe, National Institute for Materials Science, Japan
- RH15 Electrical and thermal transport properties of the polycrystalline (Cr₈₆Ru₁₄)_{1-x}V_x alloy system**
Leelakrishna Reddy, Aletta Roletta Prinsloo, Charles Johannes Sheppard and Andre Micheal Strydom, Physics, University of Johannesburg, South Africa
- RH16 Magnetic properties of the layered triangular-lattice antiferromagnets CsM(MoO₄)₂ (M=V, Fe)**
Masahiko Isobe and Yutaka Ueda, ISSP, Univ. of Tokyo, Japan

POSTER PRESENTATION

July 12 (Thu)

- RH17 Kitaev-Heisenberg magnetism in honeycomb iridates $A_2\text{IrO}_3$ (A=Li,Na)
 Akihiko Kato¹, Tomohiro Takayama^{2*} and Hidenori Takagi³, ¹*Department of Applied Chemistry, University of Tokyo, Japan;* ²*Department of Advanced Materials Science, University of Tokyo, Japan;* ³*Department of Physics, University of Tokyo, Japan*
- RH18 Effects of the annealing conditions on the magneto-transport properties of $\text{La}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1+\delta}\text{O}_3$ -manganese oxide composites
 Sang-im Yoo^{1*} and Hyo-jin Kim², ¹*Department of Materials Science and Engineering, Seoul national university, Korea;* ²*Department of Materials Science and Engineering, Seoul National University, Korea*
- RH19 Temperature dependence of spin lattice relaxation time of proton NMR in mixed antiferromagnets $A_1-x\text{BxC}_{12}-2\text{H}_2\text{O}$
 Tatsuichi Hamasaki¹, Kazuko Zenmyo² and Hidenori Kubo², ¹*Physics Department, Kyushu Sangyo University, Japan;* ²*Fukuoka Institute of Technology, Japan*
- RH20 Electronic Structure and magneto-optical properties of Co_2Mn_x alloys where X = Ge, Sn and Pb: a first-principles investigation in LDA+U approach
 Tran Van Quang¹, Jae Il Lee² and Miyoung Kim³, ¹*Dept. of Physics, Ajou University, Suwon 443-749, Korea;* ²*Dept of Physics, Inha University, Incheon 402-751, Korea;* ³*Division of Energy System Research, Ajou University, Korea*
- RH21 2D Heisenberg antiferromagnetism in spin-orbit Mott insulator Sr_2IrO_4
 Akiyo Matsumoto¹, Tomohiro Takayama¹ and Hide Takagi^{2*}, ¹*Department of Advanced Materials, The University of Tokyo, Japan;* ²*Department of Physics, The University of Tokyo, Japan*
- RH22 Magnetoresistance and magnetic properties of oxygen deficient $(\text{Sr},\text{Y})(\text{Fe},\text{Co})\text{O}_3$ perovskites
 Jean-marie Le Breton^{1*}, Youssef Rizki¹, Yohann Breard², Luc Lechevallier¹ and Antoine Maignan², ¹*Groupe de Physique des Materiaux - UMR 6634, CNRS - Universite de Rouen, France;* ²*CRISMAT, UMR 6508 CNRS, ENSICAEN - Universite de Caen, France*
- RH23 High field element selective magnetometry in Erbium Iron garnet
 Cornelius Strohm*, Thomas Roth, Peter J. E. M. Van Der Linden, Olivier Mathon and Sakura Pascarelli, *European Synchrotron Radiation Facility, 6 rue Jules Horowitz 38000 Grenoble, France*
- RH24 THz and infrared excitation spectrum below the Jahn-Teller transition in $\text{Sr}_3\text{Cr}_2\text{O}_8$
 Zhe Wang^{1*}, Michael Schmidt¹, Franz Mayr¹, Diana Quintero-castro², A. T. M. Nazmul Islam², Bella Lake², Hans-albrecht Krug Von Nidda¹, Alois Loidl¹ and Joachim Deisenhofer¹, ¹*Experimental Physics 5, Intitute for Physics, Augsburg University, Germany;* ²*Helmholtz-Zentrum Berlin fur Materialien und Energie, Germany*
- RH25 High-field multi-frequency ESR in the S=2 Heisenberg antiferromagnetic chain compound $\text{MnCl}_3(\text{bpy})$
 Masayuki Hagiwara^{1*}, Shojiro Kimura², Yuichi Idutsu¹ and Zentaro Honda³, ¹*KYOKUGEN, Osaka University, Japan;* ²*IMR, Tohoku University, Japan;* ³*Graduate School of Science and Engineering, Saitama University, Japan*

RI: Phase transition

July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Pinaki Sengupta (Nanyang Technological University, Singapore)

- RI01 Distribution of magnetization in the random ising models.
 Kazuyuki Matsumoto¹, Tatsuya Yoshimoto¹, Hiroki Mizuno¹, Takuya Okada¹, Yosuke Ishikawa¹ and Yasuhiro Akutsu², ¹*Department of Applied Sciences, Muroran Institute of Technology, Japan;* ²*Department of Physics, Graduate School of Sciences, Osaka University, Japan*
- RI02 Berezinskii-Kosterlitz-Thouless trasition in two-dimensional p-state clock model
 Yuta Kumano*, Yusuke Tomita and Masaki Oshikawa, *ISSP, Japan*

POSTER PRESENTATION

July 12 (Thu)

- RI03 Influence of interplanar coupling on the entropy and specific heat of the bilayer ferromagnet
 Karol Szalowski and Tadeusz Balcerzak*, *Department of Solid State Physics, University of Lodz, Poland*
- RI04 Nontrivial ferrimagnetism of the heisenberg model on the union jack strip lattice
 Tokuro Shimokawa* and Hiroki Nakano, *University of Hyogo, Japan*
- RI05 Control of quantum critical points in bond disordered spin ladder materials
 S Ward^{1*}, H Ryll², D Biner³, K W Kramer³, K Kiefer², D F McMorrow¹ and Ch Ruegg⁴, ¹*London Centre for Nanotechnology, University College London, United Kingdom;* ²*Helmholtz Zentrum Berlin, Germany;* ³*Chemistry and Biochemistry, University of Bern, Switzerland;* ⁴*Laboratory for Neutron Scattering, Paul Scherrer Institut, Switzerland*
- RI06 Triangular spin tubes with bond randomness
 Yoko Miura* and Hirotaka Manaka², ¹*Suzuka National College of Technology, Japan;* ²*Department Graduate School of Science and Engineering, Kagoshima University, Japan*
- RI07 A new approach to the characterization of aging, rejuvenation, and memory effects in magnetic systems
 Hiroaki Mamiya* and Shigeki Nimori, *National Institute for Materials Science, Japan*
- RI08 The linear soliton generated by Z_2 vortex in quantum antiferromagnet
 Pawel Rusek, *Institute of Physics, Wroclaw University of Technology, PL, Poland*
- RI09 Exact results of a mixed spin-1/2 and spin-1 Ising model with bilinear and three-site four-spin interactions on decorated planar lattices
 Michal Jascur^{1*}, Viliam Stubna¹, Karol Szalowski² and Tadeusz Balcerzak², ¹*Institute of Physics, P.J. Safarik University in Kosice, Park Angelinum 9, 040 13 Kosice, Slovak;* ²*Department of Solid State Physics, University of Lodz, ul. Pomorska 149/153, 90-236 Lodz, Poland*
- RI10 Anomalous spin diffusion on the two-dimensional percolating network in $\text{Rb}_2\text{Mn}_{0.6}\text{Mg}_{0.4}\text{F}_4$
 Shinichi Itoh*, *Institute of Materials Structure Science, High Energy Accelerator Research Organization, Japan*
- RI11 Quantum phase transitions in 1/3 plateau of the quantum spin tube
 Kouichi Okunishi^{1*}, Masahiro Sato², Toru Sakai³, Kiyomi Okamoto⁴ and Chigaku Itoi⁵, ¹*Department of Physics, Niigata University, Japan;* ²*Department of Physics and Mathematics, Aoyama Gakuin University, Japan;* ³*Japan Atomic Energy Agency, SPring-8 and University of Hyogo, Japan;* ⁴*Department of Physics, Tokyo Institute of Technology, Japan;* ⁵*Department of Physics, Nihon University, Japan*
- RI12 $\text{Cs}_2\text{CoC}_{14}$ - an effective XY-spin-1/2 compound in transverse magnetic fields
 Oliver Breunig^{1*}, Eran Sela², Benjamin Buldmann², Markus Garst², Petra Becker³, Ladislav Bohaty³, Ralf Muller¹ and Thomas Lorenz¹, ¹*II. Physikalisches Institut, University of Cologne, Germany;* ²*Institut fur Theoretische Physik, University of Cologne, Germany;* ³*Institut fur Kristallographie, University of Cologne, Germany*
- RI13 Critical phenomena at the antiferromagnetic phase transition of Azurite $\text{Cu}_3(\text{CO}_3)_2(\text{OH})_2$
 Pham Thanh Cong, Bernd Wolf*, Rudra Sekhar Manna, Andreas Bruhl, Sebastian Kohler and Michael Lang, *Physics Institute, Goethe-University Frankfurt (M), SFB/TR 49, D-60438 Frankfurt (M), Germany*
- RI14 Dynamical properties of supersolid states in spin systems
 Yuta Murakami*, Takahi Oka and Hideo Aoki, *Physics, University of Tokyo, Japan*
- RI15 Magnetic phase transition of antiferromagnetic $\text{Cs}_3\text{V}_2\text{Cl}_3$
 Hikomizu Kikuchi¹, Takashi Tanaka¹, Yutaka Fujii², Akira Matsuo³ and Koichi Kindo³, ¹*Department of Applied Physics, University of Fukui, Japan;* ²*Research Center for Development of Far-Infrared Region, University of Fukui, Japan;* ³*ISSP, The University of Tokyo, Japan*
- RI16 Novel field-induced quantum phase transition of the kagome-lattice antiferromagnet
 Toru Sakai* and Hiroki Nakano², ¹*SPring-8, Japan Atomic Energy Agency, Japan;* ²*Graduate School of Material Science, University of Hyogo, Japan*

POSTER PRESENTATION**July 12 (Thu)**

- RI17** Antiferromagnetic phase transition of K-Rb alloy nanoclusters incorporated in sodalite
Takehito Nakano*, Yuko Ishida, Atsufumi Hanazawa and Yasuo Nozue, Department of Physics, Graduate School of Science, Osaka University, Japan
- RI18** A novel scaling method for critical phenomena studies: finite size effects
Joao S Amaral^{1*}, Jouke R Heringa², Ekkes Bruck² and Vitor S Amaral¹, ¹CICECO and Dept. of Physics, Universidade de Aveiro, Portugal; ²Delft University of Technology, Faculty of Applied Sciences, 2626 Delft, Netherlands
- RI19** The transverse-field quantum Ising model on infinite-dimensional structures using quantum Monte Carlo method and finite-size scaling
Su Do Yi¹, Seung Ki Baek², Jaegon Um² and Beom Jun Kim^{1*}, ¹Department of Physics and BK21 Physics Research Division, Sungkyunkwan University, Suwon 440-746, Korea; ²School of Physics, Korea Institute of Advanced Study, Korea
- RI20** Study of cluster heterogeneity scaling in the two-dimentional Ising model
Woo Seong Jo¹, Su Do Yi¹, Seung Ki Baek² and Beom Jun Kim^{1*}, ¹Department of Physics and BK21 Physics Research Division, Sungkyunkwan University, Suwon 440-746, Korea; ²School of Physics, Korea Institute of Advanced Study, Seoul 130-722, Korea
- RI21** Zero-temperature phase transition in a one-dimensional Ising ferromagnet using Glauber dynamics with a synchronous update
Il Gu Yi and Beom Jun Kim*, Physics, Sungkyunkwan University, Korea
- RI22** Stochastic treatment of magnetic moment relaxation in spin echo models
Maxim Pavlovich Shlykov, National Research Centre 'Kurchatov Institute', Russia

RJ: Vortex dynamics

July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Ki-suk Lee (UNIST, Korea)

- RJ01** Vortex core switching on notched circular disks
Tomonori Sato* and Yoshinobu Nakatani, University of Electro-Communications, Japan
- RJ02** Effect of oersted field on magnetic vortex core gyration
Tomonori Sato^{1*}, Yoshinobu Nakatani¹ and Teruo Ono², ¹University of Electro-Communications, Japan; ²Kyoto University, Japan
- RJ03** Mutual spin-transfer torque in vortex nano-oscillators
Xiaolei Wang, Ning Wang and Antonio Ruotolo, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong
- RJ04** Key role of temperature in ferromagnetic bloch point simulations
Kristof M. Lebecki^{1*}, Denise Hinze¹, Oksana Chubykalo-fesenko² and Ulrich Nowak¹, ¹Department of Physics, University of Konstanz, Germany; ²Instituto de Ciencia de Materiales de Madrid, CSIC, Cantoblanco, 28049 Madrid, Spain
- RJ05** Polarization-selective signal propagation in a chain of vortices
Andreas Vogel^{1*}, Michael Martens¹, Markus Weigand² and Guido Meier¹, ¹Institut fuer Angewandte Physik und Zentrum fuer Mikrostrukturforschung, Universitaet Hamburg, Germany; ²Max-Planck-Institut fuer Intelligente Systeme, Germany
- RJ06** Theoretical study on frequency of vortex-antivortex pairs rotation in a magnetic thin-film with multi-contacts
Hiroshi Tsukahara, Hiroko Arai and Hiorshi Imamura*, AIST, Japan

POSTER PRESENTATION**July 12 (Thu)**

- RJ07** Parametric excitation and subcritical phase-locking in spin-transfer vortex oscillators
Paolo Bortolotti^{1*}, C. Serpico², E. Grimaldi¹, J. Grollier¹, V. Cros¹, A. Fukushima³, H. Kubota³, K. Yakushiji³, S. Yuasa³, K. Ando³ and A. Fert¹, ¹Unite Mixte de Physique CNRS/Thales, France; ²Dipartimento di Ingegneria Elettrica, Universita di Napoli 'Federico II', Italy; ³National Institute of Advanced Industrial Science and Technology (AIST), Japan
- RJ08** Micromagnetic simulation for controlling the magnetic vortex chirality by current-induced Oersted field
Syuta Honda^{1*}, Hiroyoshi Itoh², Satoshi Yakata³ and Takashi Kimura³, ¹Faculty of Pure and Applied Sciences, University of Tsukuba, Japan; ²Department of Pure and Applied Physics, Kansai University, Japan; ³Advanced Electronics Research Division, INAMORI Frontier Research Center, Kyushu University, Japan
- RJ09** Stability of the vortex structure on the core switching by AC current
Tomonori Sato* and Yoshinobu Nakatani, University of Electro-Communications, Japan
- RJ10** Time-averaged observation of magnetic vortex resonated in square-shaped NiFe films
Motoi Kodama¹, Koji Sekiguchi² and Yukio Nozaki^{3*}, ¹Department of Physics, Keio University, Japan; ²Department of Physics, Keio University, JST PRESTO, Japan; ³Department of Physics, Keio University, JST CREST, Japan
- RJ11** Diverging-converging spin vortex pairs in biquadratically interlayer exchange coupled elements
Sebastian Wintz^{1*}, Christopher Bunce¹, Anja Banholzer¹, Michael Koerner¹, Sibylle Gemming¹, Artur Erbe¹, Joerg Raabe², Christoph Quitmann² and Juergen Fassbender¹, ¹Helmholtz-Zentrum Dresden-Rossendorf, Germany; ²SLS, Paul Scherrer Institut, Switzerland
- RJ12** Magnetic vortex dynamics in exchange-biased micron-sized structures
Sofia De Oliveira Parreira^{1*}, Flavio Garcia² and Maximiliano Delany Martins¹, ¹Applied Physics Laboratory, CDTN/CNEN, Brazil; ²Laboratorio Nacional de Luz Sincrotron, Brazil
- RJ13** Magnetic Vortex Echo
Flavio Garcia^{1*}, Joao Paulo Sinnecker², Erico Novais² and Alberto Passos Guimaraes², ¹Brazilian Synchrotron Light Laboratory, Brazil; ²Centro Brasileiro de Pesquisas Fisicas, Brazil
- RJ14** Origin of the dipolar coupling between vortex-state disks
Ki-suk Lee and Sang-koog Kim*, Seoul National University, Korea
- RJ15** Switching dynamics of vortex cores in nanodots by azimuthal-spin-wave-mode excitation
Myoung-woo Yoo, Jehyun Lee and Sang-koog Kim*, National Creative Research Initiative Center for Spin Dynamics & Spin-Wave Devices & Nanospinics Lab, Research Institute of Adv. Materials, Dep. of Materials Sci. & Eng., Seoul Nat'l Univ., Seoul, Korea
- RJ16** Logic operations based on magnetic-vortex-state networks
Hyunsung Jung¹, Youn-seok Choi¹, Dong-soo Han¹, Young-sang Yu¹, Ki-suk Lee¹, Mi-young Im², Peter Fischer² and Sang-koog Kim^{1*}, ¹National Creative Research Initiative Center for Spin Dynamics & Spin-Wave Devices & Nanospinics Lab, Research Institute of Adv. Materials, Dep. of Materials Sci. & Eng., Seoul Nat'l Univ., Seoul, Korea; ²Center for X-ray Optics, Lawrence Berkeley National Laboratory, Berkeley, CA 94720, USA
- RJ17** Vortex-gyration-mediated magnonic crystals
Dong-soo Han and Sang-koog Kim*, National Creative Research Initiative Center for Spin Dynamics & Spin-Wave Devices & Nanospinics Lab, Research Institute of Adv. Materials, Dep. of Materials Sci. & Eng., Seoul Nat'l Univ., Seoul, Korea
- RJ18** Vortex-gyration transfer rate and energy attenuation in coupled nanodisks
Ji-hye Kim, Ki-suk Lee, Hyunsung Jung, Dong-soo Han and Sang-koog Kim*, National Creative Research Initiative Center for Spin Dynamics & Spin-Wave Devices & Nanospinics Lab, Research Institute of Adv. Materials, Dep. of Materials Sci. & Eng., Seoul Nat'l Univ., Seoul, Korea

- RJ19 Effect of spin-motive force and spin-diffusion on a vortex dynamics**
 Jung-hwan Moon¹, Aurelien Manchon² and Kyung-jin Lee^{1*}, ¹Department of Materials Science and Engineering, Korea University, Seoul 136-713, Korea; ²Materials Science and Engineering, Division of Physical Science and Engineering, KAUST, Thuwal 23955, Saudi Arabia
- RJ20 Soft X-ray microscopy of non-linear magnetic vortex core motion**
 Peter Fischer¹, Brooke Mesler¹, Mi-young Im¹ and Kristen Buchanan², ¹CXRO, LBNL, USA; ²Colorado State U, USA
- RK: Ultrafast dynamics**
July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)
 Chairperson: Sug-Bong Choe (Seoul National University, Korea)
- RK01 Dynamics of successive minor hysteresis loops**
 Alexander Gerber and Yoav W Windsor, School of Physics and Astronomy, Tel Aviv University, Israel
- RK02 Gilbert damping constants of exchange biased NiFe/FeMn bilayers**
 Jungbum Yoon, Hyeok-cheol Choi and Chun-yeol You*, Department of Physics, Inha University, Korea
- RK03 Non-linear susceptibility and influence of the applied magnetic field on ZFC/FC curves**
 Florent Tournus*, Arnaud Hillion, Alexandre Tamion and Veronique Dupuis, LPMCN, CNRS & Univ. Lyon 1, France
- RK04 On the relation between the magnetoelastic effect and the damping constants of (Ni-Fe)_{1-x}M_x (M = Ag, Cr, Ga, Au, Pd, and Pt) films**
 Yasushi Endo*, Yoshio Mitsuzuka, Yutaka Shimada and Masahiro Yamaguchi, ECEI, Graduate School of Engineering, Tohoku University, Japan
- RK05 Ultrafast magnetization dynamics of ferromagnetic systems induced by mid infrared laser pulses**
 Amani Zagdoud, Mircea Vomir, Michele Albrecht and Jean-yves Bigot, IPCMS, France
- RK06 Ferromagnetic resonance of bilayer CoFeB/NiFeSiB thin film**
 Sanghoon Jung¹, Chang Ho Choi¹, Jungbum Yoon², Chun-yeol You², Seung Hyun Kim³, Young Keun Kim³ and Myung-hwa Jung¹, ¹Sogang University, Korea; ²Inha University, Korea; ³Korea University, Korea
- RK07 Observation of non-kittel ferromagnetic resonance in Co/Cu multilayer system**
 Faris B. Abdul Ahad¹, Yu-che Chiu¹, Shang-fan Lee^{2*} and Dung S Hung³, ¹Institute of Physics, Academia Sinica, Taiwan; ²Institute of Physics, Academia Sinica, Taiwan; ³Information and Telecommunications Engineering, Ming Chuan University, Taiwan
- RK08 Neighboring layer dependence of ultrafast thermo-magnetic property in GdFeCo films**
 Arata Tsukamoto*, Tetsuya Sato, Shingo Toriumi, Ryutarou Shimizu and Akiyoshi Itoh, Electronics & Computer Science, College of Science and Technology Nihon University, Japan
- RK09 Magnetization dynamics in perpendicular magnetic anisotropy CoFeB/MgO system**
 Jeong Woo Sohn¹, Ji-wan Kim¹, Kyeong-dong Lee¹, Hyon-seok Song¹, Il-jae Shin², Byoung-chul Min², Chun-yeol You³ and Sung-chul Shin^{4*}, ¹Department of Physics, Center for Nanospinics of Spintronic Materials, KAIST, Korea; ²Center for Spintronics Research, KIST, Korea; ³Department of Physics, Inha University, Korea; ⁴Center for Nanospinics of Spintronic Materials, KAIST, Department of Emerging Materials Science, DGIST, Korea
- RK10 Composition dependence of the gilbert damping constant for co-based Heusler alloy**
 Yuichi Kasatani¹, Shinya Yamada², Masanobu Miyao³, Kohei Hamaya⁴, Hiroyoshi Ito⁵ and Yukio Nozaki^{6*}, ¹Department of Physics, Keio University, Japan; ²Department of Electronics, Kyushu University, Japan; ³Department of Electronics, Kyushu University / CREST, JST, Japan; ⁴Department of Electronics, Kyushu University / PREST, JST, Japan; ⁵Department of Pure and Applied Physics, Kansai University / CREST, JST, Japan; ⁶Department of Physics, Keio University / CREST JST, Japan

- RK11 Detection of picosecond magnetization dynamics of 50 nm magnetic dots down to the single nanodot regime**
 Bivas Rana, Dheeraj Kumar, Saswati Barman, Semanti Pal, Yasuhiro Fukuma, Yoshichika Otani and Anjan Barman*, Condensed Matter Physics and Material Sciences, S. N. Bose National Centre For Basic Sciences, India
- RK12 Femtosecond demagnetization in Ni: Electron-phonon spin flip scattering from first principles**
 Karel Carva¹, Marco Battiatto² and Peter M Oppeneer², ¹DCMP, Charles University in Prague, Czech Republic; ²Uppsala University, Sweden
- RK13 Ultrafast magneto-acoustic pulses in a nickel film**
 Jiwan Kim, Mircea Vomir and Jean-yves Bigot*, Physics, IPCMS, CNRS, France
- RK14 Minimal precessional and switching currents for relaxing-precessional magnetization reversal within a spin valve**
 Jui-hang Chang*, Hao-hsuan Chen and Ching-ray Chang, Physics, National Taiwan University, Taiwan
- RK15 Time dependent dichroism induced near the surface plasmon of Au nanoparticles**
 Jean-yves Bigot* and Minji Gwon², ¹Institute de Physique et Chimie des Matériaux de Strasbourg, CNRS, Université de Strasbourg, Korea; ²Ewha Womans University, Korea
- RK16 The effect of surface anisotropy on the switching of a particle magnetic moment**
 Shuang Guo and An Du*, Physical department, Northeastern University, China
- RK17 Magnetization dynamics of GdFeCo nanostructures revealed with PEEM**
 Souliman El Moussaoui^{1*}, Loic Le Guyader¹, Michele Buzzi¹, Elena Mengotti¹, Laura J. Heyderman¹, Frithjof Nolting¹, Thomas A. Ostler², Joe Barker², Richard F. L. Evans², Roy Chantrell², Arata Tsukamoto³, Akiyoshi Itoh³, Andrei Kirilyuk⁴, Theo Rasing⁴ and Alexey V. Kimel⁴, ¹Paul Scherrer Institut, Switzerland; ²Department of Physics, University of York, United Kingdom; ³Nihon University, Japan; ⁴Radboud University Nijmegen, Institute for Molecules and Materials, Netherlands
- RK18 A study of magnetic domain and magnetization reversal in L-shaped Py**
 S. S. Lee, Wondong Kim, Byong Sun Chun and Chanyong Hwang*, Korea Research Institute of Standards and Science, Korea
- RK19 Ultrafast dynamics of ferromagnetic copd thin film by various polarized probe beam**
 S. H. Jung¹, M. H. Jung¹, Jin Pyo Hong², Won Dong Kim³, Chanyong Hwang^{3*} and Joo In Lee³, ¹Department of Physics, Sogang University, Korea; ²Department of Physics, Hanyang University, Korea; ³Center for Nano-imaging Technology, Korea Research Institute of Standards and Science, Korea
- RK20 Low temperature time domain THz spectroscopy of terbium gallium garnet crystals**
 Rostislav V. Mikhailovskiy*, Euan Hendry, Feodor Y. Ogrin and Volodymyr V. Kruglyak, School of Physics, University of Exeter, United Kingdom
- RK21 Ferromagnetic resonance of a single micron dot using vector network analyzer**
 Kazuto Yamanoi¹, Satoshi Yakata², Takashi Kimura² and Takashi Manago^{1*}, ¹Department of Applied Physics, Fukuoka University, Japan; ²Inamori Frontier Research Center, Kyusyu University, Japan
- RK22 Relation between gilbert damping constants and perpendicular magnetic anisotropy in Ti buffered Co/Ni multilayers**
 Hyonseok Song¹, Kyeong-dong Lee¹, Jeong-woo Sohn¹, See-hun Yang², Stuart S.p. Parkin², Chun-yeol You³ and Sung-chul Shin^{4*}, ¹Department of Physics and Center for Nanospinics of Spintronic Materials, KAIST, Daejeon 305-701, Korea; ²IBM Research Division, Almaden Research Center, San Jose, California 95120, USA; ³Department of Physics, Inha University, Incheon 402-751, Korea; ⁴Department of Physics and Center for Nanospinics of Spintronic Materials, KAIST, Daejeon 305-701, Department of Emerging Materials Science, DGIST, Daegu 711-873, Korea

RK23 Chaotic motion of magnetic domain structure under alternate field
Michinobu Mino* and Yousuke Yamamoto, Department of Physics, Okayama University, Japan

RK24 Demagnetization dynamics observed by spin-resolved ultrafast x-ray photoemission
Thomas Michlmayr, Physics, ETH Zurich, Switzerland

RL: Spin electronics I

July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)

Chairpersons: Christopher Marrows (University of Leeds, UK)

J. Beach (MIT, USA)

RL01 Synchronized modes of in-plane/out-of-plane spin-torque oscillators in MTJ with synthetic ferrimagnetic free layer

Masahiko Ichimura^{1*}, Ryoko Sugano¹, Saburo Takahashi² and Sadamichi Maekawa³, ¹Central Research Lab., Hitachi, Ltd. and JST-CREST, Japan; ²IMR, Tohoku University and JST-CREST, Japan; ³Advanced Science Research Center, Japan Atomic Energy Agency and JST-CREST, Japan

RL02 Interface material effects on magnetic anisotropy and its electric field induced variation in thin films

Yuusaku Taguchi^{1*}, Haruki Kato¹, Shinya Haraguchi¹, Masahito Tsujikawa², Masafumi Shirai³ and Tatsuki Oda⁴
¹Graduate School of Natural Sciences and Technology, Kanazawa University, Japan; ²CSIS, Tohoku University, Japan; ³CSIS, Tohoku University & RIEC, Tohoku University, Japan; ⁴Institute of Science and Engineering, Kanazawa University, Japan

RL03 Effect of spin relaxation rate on the interfacial spin depolarization in ferromagnet/oxide/semiconductor contacts

Kun-rok Jeon¹, Byoung-chul Min², Youn-ho Park², Young-hun Jo³, Hun-sung Lee¹, Chang-yup Park¹ and Sung-chul Shin^{1*}, ¹Korea Advanced Institute of Science and Technology (KAIST), Korea; ²Korea Institute of Science and Technology (KIST), Korea; ³Korea Basic Science Institute (KBSI), Korea

RL04 Spin-pumping and revelation of inverse spin-Hall effect in n-type Si at room temperature

Mariko Koike*, Eiji Shikoh, Teruya Shinjo and Masashi Shiraishi, Osaka University, Japan

RL05 Critical current density and domain wall mobility in nanowires with exchange coupled hard-soft magnetic layers

Xiaoxi Liu^{1*}, Liangqiu Gao² and Akimitsu Morisako², ¹Department of Information Engineering, Shinshu University, Japan; ²Shinshu University, Japan

RL06 Spin Seebeck Effect in SiO₂/Py structures

Sang-il Kim¹, Seung-young Park², Byoung-chul Min³, Younghun Jo², Kyung-jin Lee^{1*} and Kyung-ho Shin³, ¹Department of Materials Science and Engineering, Korea University, Seoul 136-713, Korea; ²Nano Material Research Team, Korea Basic Science Institute, Daejeon 305-333, Korea; ³Korea Institute of Science and Technology (KIST), Seoul 136-791, Korea

RL07 Domain wall pinning by stray field from NiFe on Co/Ni nano-wire

Ryo Hiramatsu¹, T. Koyama¹, D. Chiba¹, S. Fukami², N. Ishiwata², Y. Nakatani³ and T. Ono^{1*}, ¹Institute for Chemical Research, Kyoto University, Japan; ²Green Innovation Research Laboratories, NEC Corporation, Japan; ³University of Electro-communications, Japan

RL08 Compositional dependence of critical current density for spin transfer torque switching of amorphous GdFeCo for thermally assisted MRAM

Bing Dai^{1*}, Takeshi Kato¹, Satoshi Iwata¹ and Shigeru Tsunashima², ¹Department of Quantum Engineering, Nagoya University, Nagoya 464-8603, Japan; ²Department of Research, NISRI, Yotsuya-dori 1-13, Chikusa-ku, Nagoya, 464-0819, Japan

RL09 Microscopic theory of magnon-drag thermodynamic transport in ferromagnetic metals
Daisuke Miura* and Akimasa Sakuma, Department of Applied Physics, Tohoku University, Japan

RL10 Electric-field control of magnetic properties in cobalt by means of electric double layer
Kazutoshi Shimamura¹, Daichi Chiba², Masashi Kawaguchi¹, Shimpei Ono⁴, Shunsuke Fukami⁵, Nobuyuki Ishiwata⁵, Kensuke Kobayashi³ and Teruo^{1*}, ¹Institute for Chemical Research, Kyoto University, Japan, ²Institute for Chemical Research, Kyoto University and PRESTO JST, Japan, ³Institute for Chemical Research, Kyoto University and Osaka University, Japan, ⁴Central Research Institute of Electric Power Industry, Japan, ⁵NEC Corporation, Japan

RL11 Spin-torque magnetic resonance of superparamagnetic Fe nano-particles in Fe/MgO/Fe magnetic tunnel junctions

Shinji Miwa, Norikazu Mizuochi, Teruya Shinjo and Yoshishige Suzuki, Graduate School of Engineering Science, Osaka University, Japan

RL12 Spin Coulomb drag and optical excitations in low dimensional systems

Irene D'amico¹ and Carsten A. Ullrich², ¹Physics, University of York, United Kingdom; ²Physics, University of Missouri-Columbia, USA

RL13 Perpendicular magnetic property and magnetic damping of very thin CoFeB films

Mikihiko Oogane*, Miho Kubota, Kei Sato, Hiroshi Naganuma and Yasuo Ando, Applied Physics, Tohoku University, Japan

RL14 Perpendicular magnetic tunnel junctions with TbFeCo-based pinned layer and CoFeB-MgO free layer
Jungmin Han^{1*}, Byoung-chul Min¹, Kyung-jin Lee² and Kyung-ho Shin¹, ¹Spin Device Research Center, Korea Institute of Science and Technology, Seoul 136-791, Korea; ²Department of Materials Science, Korea University, Seoul 136-701, Korea

RL15 Thickness and magnetic anisotropy dependence of anomalous Nernst effect in L₁-FePt films

Kota Hasegawa, Masaki Mizuguchi*, Ken-ichi Uchida, Eiji Saitoh and Koki Takanashi, Institute for Materials Research (IMR), Tohoku University, Japan

RL16 Spin-torque efficiency and magnetization reversal in three-dimensional Rashba materials

Kazuhiro Tsutsui and Shuichi Murakami*, Dept. of Physics, School of Science, Tokyo Institute of Technology, Japan

RL17 A new circuit model for spin-torque oscillator including the perpendicular torque of magnetic tunnel junction
Hyein Lim, Sora Ahn, Miryeon Kim, Jihye Shin, Jinju Lee, Seungjun Lee and Hyungsoon Shin*, Electronic Engineering, Ewha Womans University, Korea

RL18 Current induced localized domain wall oscillators in NiFe/Cu/NiFe nano-stripe

Liang-juan Chang¹, Pang Lin² and Shang-fan Lee^{1*}, ¹Institute of Physics, Academia Sinica, Taiwan; ²Department of Materials Science & Engineering, National Chiao Tung University, Taiwan

RL19 Current induced transverse field versus Joule heating in Co/Pd nanowires

Mahdi Jamali, Xuepeng Qiu, Kulothungasagaran Narayananpillai and Hyunsoo Yang*, Electrical and Computer Engineering, National University of Singapore, Singapore

RL20 Improvement of generation efficiency of pure spin current using multi-terminal spin injection

Shaojie Hu, Tatsuya Nomura, Seiji Nonoguchi and Takashi Kimura*, Advanced Electronics Research Division, INAMORI Frontier Research Center, Kyushu University, Japan

RL21 Electrical transport properties of Co₂MnSi Schottky diode

In-bok Baek¹, Xianhong Li¹, Seongjae Lee^{1*}, Chil Seong Ah², Jong-heon Yang², Chan Woo Park², Han Young Yu², Moonyu Jang² and Gun Yong Sung², ¹Department of Physics, Research Institute for Natural Sciences, Hanyang University, Seoul, 133-791, Korea; ²Electronics and Telecommunications Research Institute (ETRI), Daejon, 305-700, Korea

POSTER PRESENTATION**July 12 (Thu)**

- RL22** Negative electron-beam resist hard mask ion beam etching process for the fabrication of nanoscale spin transfer torque magnetic random access memory device
Hyungyu Lee¹, Daehong Kim¹, Bongho Kim¹, Sungwoo Chun¹, Seonjun Choi¹ and Seung-beck Lee^{2*},
¹Department of Electronic Engineering, Hanyang University, Korea; ²Institute of Nano Science and Technology, Hanyang University, Korea
- RL23** Magnetization reversal process of a Py nanodot under pure spin current injection
Tatsuya Nomura, Seiji Nonoguchi and Takashi Kimura*, Kyushu University, Japan
- RL24** Spin transfer effect in FePt nanowires: controlling the stochasticity of domain wall depinning using constrictions
Jean-philippe Attane¹, Van Dai Nguyen¹, Alain Marty¹, Lucien Notin¹, Cyrille Beigne¹, Juan Carlos Rojas-sanchez¹, Stefania Pizzini² and Laurent Vila¹, ¹Universite Joseph Fourier, BP 53, 38041, Grenoble and INAC/CEA Grenoble, 17 avenue des Martyrs, France; ²Institut Neel, CNRS, 25 avenue des Martyrs, 38042 Grenoble, France
- RL25** Electric field effect on magnetic coercivity of $\text{Fe}_3\text{O}_4/\text{BaTiO}_3$ heterostructures
Tomoyasu Taniyama*, Taiichiro Nozaki, Yasuhiro Shirahata, Gorige Venkataiah and Mitsuru Itoh, Materials and Structures Laboratory, Tokyo Institute of Technology, Japan
- RL26** Dependence of current-induced effective Rashba field and perpendicular magnetic anisotropy on annealing temperature
Ki-seung Lee¹, Byung Chul Min¹, Kyung Jin Lee^{2*} and Kyung-ho Shin¹, ¹Spin Convergence Research Center, Korea Institute of Science and Technology, Korea; ²Departments of Materials Science and Engineering, Korea University, Korea
- RL27** Spin motive force driven by magnetization dynamics
Junichiro Ohe, Toho University, Japan
- RL28** Electrical detection of the spin Hall effects in the InAs quantum well structure
Tae Young Lee, Joonyeon Chang*, Hyun Cheol Koo, Hyung-jun Kim and Suk Hee Han, Korea Institute of Science and Technology, Korea
- RL29** Bias-voltage controlled tunneling resistance in a ferromagnet-metal-insulator-ferromagnet tunneling junction
Sui-pin Chen*, Department of Electrophysics, National Chiayi University, Taiwan
- RL30** A highly (001) textured Ge/MgO/bcc-ferromagnet system prepared by ultra-high vacuum sputtering
Soogil Lee¹, Sanghoon Kim¹, Jungho Ko¹, Sangho Lee¹, Jangyup Son¹, Seung-heon Chris Baek², Seok-hee Lee² and Jongill Hong^{1*}, ¹Materials Science and Engineering, Yonsei University, Seoul 120-749, Korea; ²Dept. of Electrical Engineering, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, 305-701, Korea
- RL31** Electrical spin injection and detection in GaAs with ferromagnetic metal/MgO junctions
Seong Hoon Shim¹, Kyung-ho Kim¹, Hyung-jun Kim¹, Yun-hi Lee² and Joonyeon Chang^{1*}, ¹Spin Convergence Research Center, Korea Institute of Science and Technology, Korea; ²Department of Physics, Korea University, Korea
- RL32** Transistorless 3D STT-MRAM Architecture
Weizhong Wang*, University of Wisconsin - Milwaukee, USA

POSTER PRESENTATION**July 12 (Thu)****RM: Theoretical calculation**

July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: H. Tsuchiura (Tohoku University, Japan)

- RM01** Collision of cobalt atom with Alq₃ molecule thin film: a molecule dynamics study
Yun-peng Wang, Ling-ling Tao and Xiu-feng Han*, Institute of Physics, Chinese Academy of Sciences, China
- RM02** Magnetism and Electronic Structures of SiC nanoribbons: Role of defects
Gul Rahman^{1*} and J. M. Morbec², ¹Department of Physics, Quaid-i-Azam University, Islamabad, Pakistan; ²Instituto de Ciencias Exatas, Universidade Federal de Alfenas, 37130-000, Alfenas, MG, Brazil, Brazil
- RM03** Bulk and surface half-metallic ferromagnetism in transition-metal chalcogenides with rocksalt phase from first-principles calculations
Guoying Gao* and Kailun Yao, School of Physics, Huazhong University of Science and Technology, China
- RM04** (Upgraded to oral) Magneto-transport properties of Fe thin films in an external electric field
Kohji Nakamura^{1*}, T. Akiyama¹, T. Ito¹, M. Weinert² and A. J. Freeman³, ¹Physics Engineering, Mie University, Japan; ²Physics, University of Wisconsin-Milwaukee, USA; ³Physics and Astronomy, Northwestern University, USA
- RM05** Role of interfacial B impurity in magnetocrystalline anisotropy at MgO/Fe interface
Koji Hotta*, Kohji Nakamura, Toru Akiyama and Tomonori Ito, Mie University, Japan
- RM06** First-principles study on magnetic anisotropy of Co/Pt(111) film in electric field
Sho Yasuda* and Shugo Suzuki, Division of Materials Science, Faculty of Pure and Applied Sciences, University of Tsukuba, Japan
- RM07** Magnetic ground state of TM/Graphene/TM films
Dongyoo Kim, Arqum Hashmi and Jisang Hong*, Department of Physics, Pukyong National University, Korea
- RM08** A model of chain of ellipsoid-rings for magnetic nanotubes
Sen Yang*, Junfeng Gong and Xiaoping Song, Department of Materials Physics, Xi'an Jiaotong University, China
- RM09** First-principles GGA+U calculations of half-metallicity in wurtzite NiO/ZnO(0001) superlattices
X. H. Zhou, National Laboratory for Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China

RN: Magnetic nanoparticles

July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: H. Mamiya (NIMS, Japan)

- RN01** Magnetic properties of La doped nanocrystalline Z-type ferrite nanopowders synthesized via co-precipitation method
Mohamed M. Rashad^{1*}, M. Rasly¹, H. M. Elsayed², A. A. Satter² and I. A. Ibrahim¹, ¹Advanced Materials Department, Central Metallurgical Research and Development Institute, Egypt; ²Physics Department, Ain Shams University, Egypt
- RN02** Magnetic properties of Fe-doped NiO nanoparticles
Akinobu Kurokawa*, Takuya Yanoh, Shinya Yano, Hiromasa Takeuchi, Kazuki Onuma, Takaya Kondo, Kazunari Miike, Toshiki Miyasaka and Yuko Ichiyangai, Physics, Yokohama National University, Japan

POSTER PRESENTATION**July 12 (Thu)****RN03 Uniaxial strain effects on spinel ferrite nanoparticles containing Nd and B elements**

Masaki Mito¹, Seiya Saisho², Hiroyuki Deguchi¹, Takashi Iwamoto³ and Atsushi Takahara⁴, ¹*Department of Basic Science, Kyushu Institute of Technology, Japan;* ²*Department of Applied Science for Integrated System Engineering, Kyushu Institute of Technology, Japan;* ³*Institute for Sustainability Research and Education, Hosei University, Japan;* ⁴*Institute for Materials Chemistry and Engineering, Kyushu University, Japan*

RN04 The magnetic proximity effect in Fe₃O₄ core/γ-Mn₂O₃ shell nanoparticles

S. M. Yusuf* and P. K. Manna, *Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai 400085, India*

RN05 Covalent immobilization of biotin on superparamagnetic nanoparticles

Long Giang Bach¹, Md. Rafiqul Islam² and Kwon Taek Lim^{2*}, ¹*Department of Imaging System Engineering, Pukyong National University, 608-737, Busan, Korea;* ²*Department of Imaging System Engineering, Pukyong National University, Busan, Korea*

RN06 (Withdrawn) Fabrication of (Mn-Al)/Pd or Ni with Core-Satellite Structured Magnetic Particles

Youn-kyoung Baek*, Jung-goo Lee and Chul-jin Choi, *Powder & Ceramic Division, Korea Institute of Materials Science, Korea*

RN07 The effect of hydrostatic pressure on the Morin transition in hematite nanoparticles

Luana Caron^{1*}, Davide Peddis², Lorenza Suber³, Dino Fiorani³ and Per Nordblad⁴, ¹*Fundamental Aspects of Materials and Energy, Faculty of Applied Sciences, TU Delft Mekelweg 15, 2629JB Delft, Netherlands;* ²*Dipartimento di Scienze Chimiche, Universita degli Studi di Cagliari, Cittadella Universitaria di Monserrato 09042 Cagliari, Italy;* ³*Istituto di Struttura della Materia, Area della Ricerca di Roma, CNR Via Salaria km 29500, CP 10-00016 Monterotondo Stazione, Rome, Italy;* ⁴*Department of Engineering Sciences, Uppsala University Box 534, 751 21 Uppsala, Sweden*

RN08 Ultra-thin MgO coating of superparamagnetic magnetite nanoparticles by combined co-precipitation and sol-gel synthesis

Laura De Matteis¹, Laura Custardoy¹, Rodrigo Fernandez-pacheco², Cesar Magen³, Jesus M De La Fuente⁴, M R Ibarra⁵ and Clara Marquina^{6*}, ¹*Instituto de Nanociencia de Aragon(INA), Universidad de Zaragoza, Spain;* ²*Laboratorio de Microscopias Avanzadas (LMA) - Instituto de Nanociencia de Aragon (INA), Universidad de Zaragoza, Spain;* ³*Laboratorio de Microscopias Avanzadas (LMA) - Instituto de Nanociencia de Aragon (INA), Departamento de Fisica de la Materia Condensada Universidad de Zaragoza Fundacion ARAID, Spain;* ⁴*Instituto de Nanociencia de Aragon- INA, Universidad de Zaragoza Fundacion ARAID, Spain;* ⁵*Instituto de Nanociencia de Aragon (INA)- Laboratorio de Microscopias Avanzadas (LMA), Departamento de Fisica de la Materia Condensada Universidad de Zaragoza, Spain;* ⁶*Instituto de Ciencia de Materiales de Aragon-ICMA, Departamento de Fisica de la Materia Condensada CSIC-Universidad de Zaragoza, Spain*

RN09 Synthesis and characterization of ultra-small magnetic FeNi/G and NiCo/G nanoparticles

Mariana Castrillon¹, Alvaro Mayoral², Cesar Magen³, Johan G. Meier¹, Clara Marquina^{4*}, Silvia Irusta⁵ and Jesus Santamaria⁵, ¹*Technological Institute of Aragon (ITA), Zaragoza, Spain;* ²*Instituto de Nanociencia de Aragon (INA)- Laboratorio de Microscopias Avanzadas (LMA), Universidad de Zaragoza, Spain;* ³*Instituto de Nanociencia de Aragon (INA)- Laboratorio de Microscopias Avanzadas (LMA), Departamento de Fisica de la Materia Condensada Universidad de Zaragoza, Spain;* ⁴*Instituto de Ciencia de Materiales de Aragon-ICMA, CSIC-U. Zaragoza, Spain;* ⁵*Instituto de Nanociencia de Aragon-INA, Networking Research Center on Bioengineering, Biomaterials and Nanomedicine, CIBER-BBN U. Zaragoza, Spain*

POSTER PRESENTATION**July 12 (Thu)****RN10 Magnetization measurements and blocking temperature distribution in magnetic nanoparticle systems**

Taehoon Lee¹, Seunghyun Kim¹, Sungwon Yoon², Byoung Jin Suh^{2*}, Zeehoon Jang¹ and Kyunghyun Kim³, ¹*Department of Physics, Kookmin University, Korea;* ²*Department of Physics, The Catholic University of Korea, Korea;* ³*Biotechnology & Bioinformatics, Korea University, Korea*

RN11 Structural and magnetic anomalies in CoAl₂O₄ nanocrystals

Koichi Sato¹, Takashi Naka¹, Takayuki Nakane¹, Minoru Taguchi¹, Dinesh Rangappa², Satoshi Ohara³ and Tadafumi Adschiri⁴, ¹*National Institute for Materials Science, Japan;* ²*International Advanced Research Centre for Powder Metallurgy & New Materials, India;* ³*Joining and Welding Research Institute, Osaka University, Japan;* ⁴*WPI, Advanced Institute for Materials Research, Tohoku University, Japan*

RN12 Preparation of chains of single-domain Ni nanoparticles with collinear direction of magnetization

S A Nepijko^{1*}, D Kutnyakhov¹, I E Protsenko², H J Elmers¹, R Wiesendanger³ and G Schoenhense¹, ¹*Institute of Physics, University of Mainz, Germany;* ²*Department of Applied Physics, Sumy State University, Ukraine;* ³*Institute of Applied Physics, University of Hamburg, Germany*

RN13 Influence of the morphology on the magnetic properties of dodecanethiol-capped Au nanoparticles

Daniel Ortega¹, Eider Goikolea², Jose Javier Garitaonandia², Maite Insauti², Hyodo Zhang³, Kiyonori Suzuki³ and Fernando Plazaola², ¹*Department od Physics and Astronomy, University College London Gower Street WCIE 6BT London, United Kingdom;* ²*Zientzia eta Teknologia Fakultatea Euskal Herriko Unibertsitatea, Spain;* ³*Department of Materials Engineering, Monash University, Australia*

RN14 Structure effects on the magnetic behavior in Fe oxide based nanoparticles

Amilcar Labarta*, Carlos Moya, Nicolas Perez, Arantxa Fraile, Oscar Iglesias and Xavier Batlle, *Fundamental Physics, University of Barcelona, Spain*

RN15 (Withdrawn) Magnetic properties of surface-functionalized nano-particles

Ann Kathrin Michel¹, Mathias Kraken¹, Jochen Litterst^{1*}, Yannick Guar², Joulia Larionova², Leniac Lartigue², Jerome Long² and Alessandro Lascialfari³, ¹*IPKM, TU Braunschweig, Germany;* ²*Institut Charles Gerhardt, Universite Montpellier II, France;* ³*CNRNANO, Univ. Milano, Italy*

RN16 Study of aqueous dispersions of magnetic nanoparticles by magnetic and rheological measurements

Shalini M¹, Mahesh Samant², Radha S^{3*} and D. C. Kothari³, ¹*Department of Physics and UM-DAE CBS, University of Mumbai, India;* ²*National Center for Nanosciences and Nanotechnology, University of Mumbai, India;* ³*Department of Physics, University of Mumbai, India*

RN17 Magnetodielectric effect of Fe₂O₃ nanoparticles embedded in SiO₂ glass matrix

Hung-cheng Wu, Sudip Mukherjee and Hung-duen Yang*, *Department of Physics, National Sun Yat-sen University, Taiwan*

RN18 Tuning the concentration of magnetic Co nanoparticles in In₂O₃ with oxygen pressure and concentration of tin

Marzook S. Alshammary^{1*}, Mohammed S. Alqahtani¹, Qi Feng¹, S. Alfahad², M. Alotibi², A. Alyamani², A. M. H. R. Hakimi³, S. M. Heald⁴, H. J. Blythe¹, A. M. Fox¹ and G. A. Gehring¹, ¹*Department of physics and astronomy, University of Sheffield, United Kingdom;* ²*Nanotechnology center, King Abdulaziz City for Science and Technology, Saudi Arabia;* ³*Department of Materials Science and Metallurgy, University of Cambridge, United Kingdom;* ⁴*Advanced Photon Source, Argonne National Laboratory, USA*

RN19 Synthesis, structural, and magnetic properties of strontium hexaferrite nanoparticles with La, Sm doping and core/shell structure by the sol-gel hydrothermal process

Hue Thi Minh Dang¹, Dien Xuan Luong¹, Hoang Duc Tran¹, Huong Manh Phan² and Chinh Dang Huynh^{1*}, ¹*Department of Inorganic Chemistry, Hanoi University of Science and Technology, Viet Nam;* ²*Department of Physics, University of South Florida, USA*

POSTER PRESENTATION

July 12 (Thu)

- RN20 A facile fabrication of the superparamagnetic $\text{Fe}_3\text{O}_4@\text{TiO}_2$ microspheres and its photocatalytic application
Kyong-hoon Choi¹, Eun-mee Kim², Seung-lim Oh³, Do-yeon Kim⁴ and Jin-seung Jung^{4*}, ¹Material R&D Division, H & Global Co. Ltd., Korea; ²Gangneung Center, Korea Basic Science Institute, Korea; ³Material R&D Division, H & Global Co. Ltd., Korea; ⁴Department of Chemistry, Gangneung-Wonju National University, Korea
- RN21 Synthesis of high moment magnetite (Fe_3O_4) nanoparticles by simple modified polyol method
Mohamed Abbas Ali Ahmed and Cheolgi Kim*, Material Science and Engineering, Chungnam National University, Korea
- RN22 Study of Structural, morphological and optical properties of $\text{SrFe}_{12-x}\text{Co}_x\text{O}_{19}$ ($x=0, 0.1, 0.2$) hexaferrite nanoparticles
Morteza Zargar Shoushtari*, Ebrahim Mousavi Ghahfarokhi and Fereshte Ranjbar, Physics, Shahid Chamran University of Ahvaz, Iran
- RN23 Light induced ferromagnetism of nanocrystalline CuCr_2Se_4 particles
Dongsoo Kim*, Kookchae Chung and Choljin Choi, Korea Institute of Materials Science, Korea
- RN24 Magnetite nanoparticles in hybrid aerogel and PEG encapsulated of magnetite nanoparticles for the hyperthermia application
Eunhee Lee and Chang-yeoul Kim, KICET, Korea

RO: Hard magnetic materials I

July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: T. Shima (Graduate School of Tohoku Gakuin University, Japan)

- RO01 Effect of the Cu content on the microstructural and magnetic properties of Nd-Fe-B sintered magnets
Tae-hoon Kim¹, Seong-rae Lee^{1*}, Seok Namkung² and Tae-suk Jang², ¹Korea University, Korea; ²Sunmoon University, Korea
- RO02 Effects of the DyH_3 and Dy_2O_3 powder addition on the magnetic and microstructural properties of Nd-Fe-B sintered magnet
Kyoung-hoon Bae¹, Tae-hoon Kim¹, Seong-rae Lee^{1*}, Seok Namkung² and Tae-suk Jang², ¹Korea University, Korea; ²Sunmoon University, Korea
- RO03 Magnetic properties of nano-composite Nd-Fe-B thick-film magnets prepared by vacuum arc deposition
Tomoaki Tsutsumi¹, Masaki Nakano^{1*}, Takeshi Yanai¹, Fumitoshi Yamashita² and Hirotoshi Fukunaga¹, ¹Nagasaki University, Japan; ²Minebea Co. Ltd., Japan
- RO04 Corrosion resistance and corrosion behaviors of sintered rare-earth magnets in different corrosive environments
Anhua Li*, Wei Li, Jiajie Li, Haibo Feng, Zhaojun Guo and Minggang Zhu, Division of Functional Materials, Central Iron & Steel Research Institute, China
- RO05 Effects of grain size and interface state on the coercivity in Nd-Fe-B/Nd thin films
Kunihiro Koike^{1*}, Takanao Kusano¹, Daisuke Ogawa¹, Mizuno Yoshiyuki¹, Miyazaki Takamichi², Yasuo Ando² and Hiroaki Kato¹, ¹Graduate School of Science and Engineering, Yamagata University, Japan; ²Graduate School of Engineering, Tohoku University, Japan
- RO06 Interface state and coercivity in Nd-Fe-B/Dy films
Jin Umezawa¹, Yoshiki Sakai¹, Kunihiro Koike^{1*}, Daisuke Ogawa¹, Yoshiyuki Mizuno¹, Takamichi Miyazaki², Yasuo Ando² and Hiroaki Kato¹, ¹Graduate School of Science and Engineering, Yamagata University, Japan; ²Graduate School of Engineering, Tohoku University, Japan

POSTER PRESENTATION

July 12 (Thu)

- RO07 Investigation on the magnetic and crystalline structures of die-upset Nd-Fe-B magnets
Yikun Fang^{1*}, Wei Li¹, Xiaolu Yin², Zhaojun Guo¹, Minggang Zhu¹ and Sy-hwang Liou², ¹Division of Functional Materials Research, Central Iron and Steel Research Institute, Beijing 100081, China; ²Department of Physics and Astronomy and Nebraska Center for Materials and Nanoscience, University of Nebraska-Lincoln, Lincoln, NE 68588, USA
- RO08 A novel approach - microwave assisted sintering - for preparation of high performance permanent magnets
Dimitrios G Niarchos^{1*}, Margarit Gjoka¹, Eamon Devlin¹, George Hadjipanayis², Amparo Borrell Tomas³, Maria Dolores Salvador Moya³ and Felipe L Penaranda-foix⁴, ¹Institute of Materials Science, NCSR DEMOKRITOS, Greece; ²Department of Physics and Astronomy, U of Delaware, Newark, DE, USA; ³Institute of Materials, Technology Polytechnic University of Valencia, Camino de Vera, s/n 46022, Spain; ⁴School of Communication, School of Telecommunication, Polytechnic University of Valencia, Camino de Vera, s/n 46022, Spain
- RO09 Preparation of Nd-Fe-B thin films with columnar structure and their structure and magnetic properties
Shota Suzuki, Yuki Hatayama and Toshiyuki Shima, Tohoku Gakuin University, Japan
- RO10 Microstructure of (Nd,Dy)-Fe-B permanent magnet by spark plasma sintering
Sun Yong Song, Jin Woo Kim and Young Do Kim*, Division of Materials Science and Engineering, Hanyang University, Korea
- RO11 Effect of small Dy-alloy powder additions on the coercivity of NdFeB sintered magnets
MINWOO LEE, Sunmoon University, Korea
- RO12 Coercivity of near single domain size Nd-Fe-B-type alloy particles
Hae-woong Kwon¹ and J H Yu², ¹Pukyong National University, Korea; ²KIMS, Korea
- RO13 Effect of annealing temperature on microstructure, magnetic properties and corrosion resistance of NdFeB/α-Fe nanocomposite magnets
Minxiang Pan, Pengyue Zhang*, Hongliang Ge, Hangfu Yang and Qiong Wu, Magnetism key laboratory of Zhejiang Province, China Jiliang University, 310018 Hangzhou, China
- RO14 Effect of magnetic heat-treatment on magnetic properties and corrosion behavior of $\text{Nd}_6\text{Fe}_{72-x}\text{Co}_x\text{B}_{22}$ ($x=10, 20, 30$) nanocomposite ribbons
Qiong Wu, P.Z. Zhang*, M.X. Pan, Z.S. Wang and H.I. Ge, China Jiliang University, China
- RO15 Study on magnetization reversal behavior for the annealed $\text{Nd}_2\text{Fe}_14\text{B}/\alpha\text{-Fe}$ nanocomposite alloys
Pengyue Zhang¹, Minxiang Pan¹, Hongliang Ge¹, Luke Yang¹, Ming Yue² and Weiqiang Liu², ¹College of Materials Science & Engineering, China Jiliang University, Hangzhou 310018, China; ²College of Materials Science & Engineering, Beijing University of Technology, Beijing 100124, China
- RP: Measuring techniques and instrumentation I
- July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)
- Chairperson: Michael Hall (National Physical Laboratory, UK)
- RP01 Construction of a versatile neutron-scattering spectrometer HERMES-E using renovated Ge monochromator crystals
Haruhiro Hiraka^{1*}, Kenji Ohoyama¹, Manabu Ohkawara¹, Naoki Murakami¹, Yasuo Yamaguchi¹, Kazuma Okubo², Michiro Furusaka², Yoshiaki Kiyanagi², Shin Ae Kim³, Chang Hee Lee³, Kohei Morishita⁴, Kazuo Nakajima⁴ and Kazuyoshi Yamada⁵, ¹Institute for Materials Research, Tohoku University, Japan; ²Division of Quantum Science and Engineering, Graduate School of Engineering, Hokkaido University, Japan; ³HANARO, Korea Atomic Energy Research Institute, Korea; ⁴Graduate School of Energy Science, Kyoto University, Japan; ⁵Advanced Institute for Materials Research, WPI, Tohoku University, Japan

POSTER PRESENTATION**July 12 (Thu)**

- RP02** NMR study of the phase transition behavior in $\text{Ce}_3\text{Co}_4\text{Sn}_{13}$
Chin Shan Lue, H. F. Liu and C. N. Kuo, *Physics, National Cheng Kung University, Taiwan*
- RP03** Analysis of 1/f noise characteristics of magneto-optical Kerr effect measured from Co/Pt and NiFe/Pt multilayers thin film
Djati Handoko, Sang-hyuk Lee and Dong-hyun Kim*, *Physics Department, Chungbuk National University, Korea*
- RP04** Photoemission electron microscopy of three-dimensional magnetization configurations in core-shell nanostructures
Judith Kimling¹, Florian Kronast², Stephan Martens¹, Tim Boehnert¹, Michael Martens¹, Julia Herrero Albillos², Logane Tati Bismaths², Ulrich Merkt¹, Cornelius Nielsch¹ and Guido Meier^{1*}, ¹*University of Hamburg, Germany*; ²*Helmholtz-Zentrum Berlin fuer Materialien und Energie, Germany*
- RP05** Development of high-field ESR system using SQUID magnetometer and its application to measurement under high pressure
Takahiro Sakurai^{1*}, Kohdai Fujimoto², Susumu Okubo³, Hitoshi Ohta³ and Yoshiya Uwatoko⁴, ¹*Center for Supports to Research and Education Acti, Kobe University, Japan*; ²*Graduate School of Science, Kobe University, Japan*; ³*Molecular Photoscience Research Center, Kobe University, Japan*; ⁴*Institute of Solid State Physics, University of Tokyo, Japan*
- RP06** Alternating magnetic force microscopy: direction detectable imaging of static and alternating magnetic field with high spatial resolution
Hitoshi Saito¹, Ito Ryoichi¹, Kodai Hatakeyama¹, Zhenghua Li², Genta Egawa¹ and Satoru Yoshimura¹, ¹*Graduate School of Engineering and Resource Science, Akita University, Japan*; ²*Venture Business Laboratory, Akita University, Japan*
- RP07** 30 T pulsed-high-magnetic-field and element-selective magnetization studies using soft x-ray magnetic circular dichroism
Yasuo Narumi^{1*}, Tetsuya Nakamura², Misaki Hayashi¹, Hiroyuki Nojiri¹, Kenji Kodama³, Toko Hiroto², Wataru Ito⁴, Rie Umetsu¹, Ryosuke Kainuma⁵, Koichi Kindo⁶ and Toyohiko Kinoshita², ¹*Institute for Materials Research, Tohoku University, Japan*; ²*Japan Synchrotron Radiation Research Institute/SPRING-8, Japan*; ³*Department of Mechanical Engineering, Nara National College of Technology, Japan*; ⁴*Department of Materials and Environmental Engineering, Sendai National College of Technology, Japan*; ⁵*Graduate School of Engineering, Tohoku University, Japan*; ⁶*Institute for Solid State Physics, The University of Tokyo, Japan*
- RP08** Imaging magnetic responses of nanomagnets by X-ray PhotoEmission Electron Microscopy
Florian Kronast^{1*}, Julia Herrero-albillos², Oliver Sandig¹, Julia Kurde¹, T Noll¹, Florian Roemer³, Nina Friedenberger³ and M Farle³, ¹*Helmholtz Zentrum Berlin fur Materialien und Energie, Albert-Einstein-Str. 15, 12489 Berlin, Germany*; ²*Centro Universitario de la Defensa, Carretera Huesca s/n, Zaragoza, Spain*; ³*Universitat Duisburg-Essen, Lotharstr.1, 47048 Duisburg, Germany*
- RP09** Development of high-sensitivity cantilever-detected ESR measurement using a fiber-optic interferometer.
Yuki Tokuda¹, Eiji Ohmichi^{2*} and Hitoshi Ohta³, ¹*Graduate School of Science, Kobe University, Japan*; ²*Graduate School of Science, Kobe University, Japan*; ³*Molecular Photoscience Research Center, Kobe University, Japan*
- RP10** Study of the epitaxial growth and perpendicular magnetic domain structure of ordered FePt thin film on MgO substrate using HRTEM and electron holography
W. H. Lee¹, J. H. Yoo², J. M. Yang² and J. K. Park^{1*}, ¹*Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Korea*; ²*Measurement and Analysis Team, National Nanofab Center, Korea*

POSTER PRESENTATION**July 12 (Thu)**

- RP11** Asteroid curve of GMR films on the practical substrate under the stress
Kazuhiko Okita¹, Kazushi Ishiyama² and Hideo Miura³, ¹*Industrial Instrumentation Division, Tohoku Steel Co., L7td, Japan*; ²*Research Institute of Electrical Communication, Tohoku University, Japan*; ³*Department of Nanomechanics, Graduate School of Engineering, Tohoku University, Japan*
- RP12** Micromagnetic study on the perturbative effect of magnetic force microscopy probes on 90° asymmetric Neel walls in a soft magnetic material
Hironori Asada^{1*}, Hidenori Kubo¹, Hazrina Abu Seman¹, Takashi Manago² and Hiromi Kuramochi³, ¹*Yamaguchi University, Japan*; ²*Fukuoka University, Japan*; ³*National Institute for Materials Science, Japan*
- RP13** Development of a non-conventional ESR spectrometer with a composite antenna system and an electronically controlled tuning and matching circuit
Alexey Ponomaryov¹, Kwang Yong Choi², Byoungjin Suh³ and Zeehoon Jang^{4*}, ¹*Physics, Chungang University, Korea*; ²*Physics, Chungang, Korea*; ³*Physics, The Catholic University of Korea, Korea*; ⁴*Physics, Kookmin University, Korea*
- RP14** A new type of spin-polarized scanning tunneling microscopy for observing an in-plane magnetization component with high resolution
Daichi Nara¹, Takuya Nakamura¹, Atsuhiko Nakamoto¹, Ryu Kageyama¹, Elaiyaruji Srinivasan², Kazuyuki Koike¹ and Hideo Matsuyama^{1*}, ¹*Department of Physics, Faculty of Science, Hokkaido University, Japan*; ²*Creative Research Institution (CRIS), Hokkaido University, Japan*
- RP15** Violation of Hund's third rule in structurally disordered ferromagnets
Vassilios Kapaklis^{1*}, Panagiotis Korelis¹, Bjorgvin Hjorvarsson¹, Athanasios Vlachos², Iossif Galanakis³, Panagiotis Poulopoulos³, K. Ozdogan⁴, Makis Angelakeris⁵, Fabrice Wilhelm⁶ and Andrei Rogalev⁶, ¹*Department of Physics and Astronomy, Uppsala University, Sweden*; ²*Department Materials Science, University of Patras, Greece*; ³*Department Materials Science, University of Patras, Greece*; ⁴*Department of Physics, Yildiz Technical University, Turkey*; ⁵*Department of Physics, Aristotle University of Thessaloniki, Greece*; ⁶*European Synchrotron Radiation Facility, France*
- RP16** Bulk Cr tips with full spatial magnetic sensitivity for spin-polarized scanning tunneling microscopy
Anika Schlenhoff, Andreas Sonntag*, Stefan Krause, Gabriela Herzog and Roland Wiesendanger, *University of Hamburg, Germany*
- RP17** Polarization state of scattered light in apertureless reflection-mode magneto-optical scanning near-field optical microscopy
Yongfu Cai¹, Mitsuharu Aoyagi¹, Sanyalak Niratisairak¹, Akira Emoto², Tatsutoshi Shioda³ and Takayuki Ishibashi^{1*}, ¹*Department of materials science and technology, Nagaoka University of Technology, Japan*; ²*National Institute of advanced industrial science and technology (AIST), Japan*; ³*Department of Electrical Engineering, Nagaoka University of Technology, Japan*
- RP18** Application of image processing to determine size distribution of magnetic nanoparticles
Udomchok Phromsuwan^{1*}, Yaowarat Sirisathitkul², Chitnarong Sirisathitkul¹ and Bunyarat Uyyanonvara³, ¹*School of Science, Walailak University, Thailand*; ²*School of Informatics, Walailak University, Thailand*; ³*School of Information, Computer and Communication Technology (ICT), Sirindhorn International Institute of Technology (SIIT), Thammasat University, Thailand*
- RP19** Microfabrication of a MEMS cantilever for mechanically detected high-frequency ESR measurement
Eiji Ohmichi^{1*}, Yoshimasa Yasufuku² and Hitoshi Ohta³, ¹*Graduate School of Science, Kobe University, Japan*; ²*Graduate School of Science, Kobe University, Japan*; ³*Molecular Photoscience Research Center, Kobe University, Japan*

- RP20** 2D reflection-type electron spin filter increasing the detection efficiency in spinresolved spectroscopy by 4 orders of magnitude
D Kutnyakov¹, M Kolbe¹, P Lushchyk¹, M Jourdan¹, K Medjanik¹, S A Nepijko¹, H J Elmers¹, C Tusche², J Kirschner², F Giebels³, H Gollisch³, R Feder³ and G Schoenhense^{1*}, ¹Institute of Physics, University of Mainz, Germany; ²Max Planck Institute of Microstructure Physics, Germany; ³Theoretische Festkoerperphysik, Universitaet Duisburg-Essen, Germany
- RP21** Element selective magnetization measurements under high magnetic field
Andrei Rogalev* and Fabrice Wilhelm, European Synchrotron Radiation Facility, France
- RP22** POLI: The new single crystal polarized neutron diffractometer for investigation complex magnetic structures at FRM-II
Vladimir Hutanu*, Martin Meven, Gernot Heger and Georg Roth, Institut fur Krystallographie, RWTH Aachen University, Germany
- RP23** (Withdrawn) Observation of the magnetic domain using scanning electron microscopy with polarization analysis
Sang Sun Lee, Moon Seob Bae, Wondong Kim and Chanyong Hwang*, Korea Research Institute of Standards and Science, Korea

RQ: Measuring techniques and Instrumentation II

July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Kwon-sang Ryu (KRISS, Korea)

- RQ01** Precision broadband ac measurement system for magnetotransport, magnetopolarization and magnetoelectric properties
Jun Lu*, Baogen Shen and Xiaoping Shao, State Key Laboratory of Magnetism, Institute of Physics, Chinese Academy of Sciences, China
- RQ02** Detection of magnetic beads using an extraordinary magnetoresistance sensor fabricated with unpatterned semiconductor substrate
Jian Sun* and Jurgen Kosel, King Abdullah University of Science and Technology, Saudi Arabia
- RQ03** Magnetization of single ferromagnetic-grain obtained from observation of field-induced-translation in a chamber-type µg system.
Chiaki Uyeda¹, Kenta Kuwada² and Keiji Hisayoshi², ¹Graduate School of Science, Osaka university, Japan; ²Graduate school of Science, Osaka university, Japan
- RQ04** Application of magnetoimpedance effect for protein biomarker detection
D.G. Park and Hoon Song, korea atomic energy research institute, Korea
- RQ05** Ac Calorimetry under Pulsed High Magnetic Field
Yuji Inagaki¹, Tatsuya Kawar¹, Akira Matsuo² and Koichi Kindo², ¹Applied Quantum Physics, Kyushu University, Japan; ²Institute For Solid State Physics, The University of Tokyo, Japan
- RQ06** Specific heat and thermal expansion of Sr_{1-x}Ca_xRuO₃
Rasna Thakur^{1*}, Archana Srivastava², Rajesh K. Thakur¹ and N.k. Gaur¹, ¹Department of Physics, Barkatullah University, Bhopal, India; ²Department of Physics, Sri Satya Sai College for Women, Bhopal, India
- RQ07** Voltage-current characteristics of superconductor-normal metal contact junctions measured by a picovoltmeter
Wan-seop Kim*, Mun-seog Kim, Po Gyu Park, Kyu-tae Kim and Danbee Kim, KRISS, Korea

- RQ08** Development of high resolution cryogenic particle detectors using a magnetic calorimeter
W.S. Yoon^{1,2}, Y.S. Jang¹, S.J. Lee¹, G.B. Kim¹, H.J. Lee^{1,2}, K.B. Lee¹, M.K. Lee¹, Y.N. Yuryev¹, Y.H. Kim^{1,2}, ¹Korea Research Institute of Standards and Science; ²University of Science and Technology
- RQ09** High pressure inductive measurements using microcoils in anvil cells
Swee K. Goh^{1*}, Thomas Meissner², Patricia Alireza¹ and Juergen Haase², ¹University of Cambridge, United Kingdom; ²University of Leipzig, Germany
- RQ10** Microwave synthesis and characterization of the series of co₄-xfexsb₁₂ high temperature thermoelectric materials
Alexandra Ioannidou^{1*}, Margarit Gjoka², Dimitris G Niarchos², A Borrell³, M D Salvador⁴ and F L Penarandafoix⁵ ¹Institute of Materials Science, NCSR Demokritos, Athens, Greece; ²Institute of Materials Science, NCSR DEMOKRITOS, Greece; ³Instituto de Tecnologia de Materiales (ITM), Universidad Politecnica de Valencia, Camino de Vera, Spain; ⁴Instituto de Tecnologia de Materiales (ITM), Universidad Politecnica de Valencia, Camino de Vera, s/n, 46022 Valencia, Spain; ⁵Instituto de Aplicaciones de las Tecnologias de la Informacion y de las Comunicaciones Avanzadas, Universidad Politecnica de Valencia, Camino de Vera, s/n, 46022 Valencia, Spain
- RQ11** Development of SI-STM optimized for 3D(x,T,B) phase-diagram-wide FTSTS mapping on high Tc superconductors
Seokhwan Choi¹, Jimin Kim¹, Chanhee Kim¹, Jaewook Kim¹, Hwansoo Suh² and Jhinhwan Lee^{1*}, ¹Physics, KAIST, Korea; ²FRL, SAIT, Korea
- RQ12** Homemade microcalorimetry equipment, with magnetic fields up to 9 Teslas, for magnetocaloric measurements
J. V. Leitao*, P. Van Dommelen, F. Naastepad and E. Bruck, Delft University of Technology, Netherlands
- RQ13** Nucleation and development of clustered state in hole doped manganites and cobaltites
A. V. Lazuta¹, V. A. Ryzhov¹, V. P. Khavronin¹, P. L. Molkanov¹ and Ya. M. Mukovskii², ¹Petersburg Nuclear Physics Institute, Gatchina, St.Petersburg 188300, Russia; ²Moscow Steel and Alloys Institute, Leninskii prosp. 4, Moscow 117936, Russia
- RQ14** Measurements and analysis of core loss including higher harmonic induction waveforms using superposition principle and steinmetz's law
Duhyung Yeon and Derac Son*, Physics, Hannam university, Korea
- RQ15** Highly sensitive cantilever magnetometry in static and dynamic modes for micro-scale samples
Heonhwa Choi¹, Yun Won Kim² and Jae-hyuk Choi^{1*}, ¹Nano Science, University of Science and Technology; ²Division of Physical metrology, KRISS, Deajeon 305-340, Korea; ²Display and Semiconductor Physics, Korea University, Chungnam 339-800; Division of Physical metrology, KRISS, Deajeon 305-340, Korea
- RQ16** Pulsed high magnetic fields for synchrotron and neutron applications
Fabienne Duc*, Xavier Fabreges, Paul Frings, Marc Nardone, Julien Billette, Jerome Beard, Abdelaziz Zitouni and Geert Rikken, Laboratoire National des Champs Magnétiques Intenses - CNRS Grenoble-Toulouse, France
- RQ17** Characteristics of an SQUID system with a superconductive shield for biomagnetic measurements
Kwon Kyu Yu, Kiwoong Kim, Hyuckchan Kwon, Jin Mok Kim and Yong Ho Lee, Brain and Cognition Measurement Lab, KRISS(Korea Research Institute of Standards and Science), Korea
- RQ18** Radio-frequency atomic magnetometer for sensitive susceptibility detection
Hyun Joon Lee¹, Han Seb Moon¹, Yong-ho Lee², Seong-joo Lee², Kwon-kyo Yu² and Kiwoong Kim^{2*}, ¹Pusan National University, Korea; ²Korea Research Institute of Standards and Science (KRISS), Korea
- RQ19** Cancellation coil allows precision magnetic measurements with strong magnetization field inside a shielded environment
Seong-min Hwang, Kiwoong Kim*, Chan Seok Kang, Seong-joo Lee and Yong-ho Lee, Brain and Cognition Measurement Lab., Korea Research Institute of Standards and Science, Korea

- RQ20 Development of a SQUID based ultra-low-field MRI system
Seong-joo Lee, Kiwoong Kim*, Chan Seok Kang, Seong-min Hwang and Yong-ho Lee, *Brain and Cognition Measurement Lab., Korea Research Institute of Standards and Science, Korea*
- RQ21 26 T+ steady magnetic field for neutron science at HZB Berlin
P. Smeibidl, Karel Prokes*, H. Ehmler, O. Prokhnenco and A. Tennant, *M-11, Helmholtz Zentrum Berlin, Germany*
- RQ22 A simple method for measuring blocking temperatures
Mansor Hashim¹, Ghazaleh Bahmanrokh² and Ismayadi Ismail¹, ¹*Institute of Advanced Technology, Universiti Putra Malaysia, Malaysia; ²Physics Department, Faculty of Science, Universiti Putra Malaysia, Malaysia*
- RQ23 Optimization of operation condition of orthogonal fluxgate sensor fabricated with Co based amorphous wire
Yongmin Kim¹, Young-hak Kim², Sang-ho Lim³, Cang-seob Yang⁴ and Kwang-ho Shin^{1*}, ¹*Dept. of Information and Communication Engineering, Kyungsung University, Korea; ²Pukyong National University, Korea; ³Korea University, Korea; ⁴Agency for Defense Development, Korea*

RR: Industrial applications

July 12 (Thu), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Deren Li (China Iron & Steel Research Institute, China)

- RR01 Preparation of α -Fe4N and α -Fe₃N particles with high magnetization for electromagnetic wave absorption applications
Ming-fong Tai^{1*}, Hsin-tzu Liu², C. M. Lin³ and Huan-chiu Ku¹, ¹*Physics, National Tsing Hua University, Taiwan; ²Chemical Engineer, National Tsing Hua University, Taiwan; ³Applied Science, National Hsingchu University of Education, Taiwan*
- RR02 Methods for determining the quality of magnetic fluids
Viorica Chioran, *University Babes-Bolyai - Cluj Napoca / Romania, Romania*
- RR03 A study on magnetic fluid viscosity
Viorica Chioran, *University Babes-Bolyai - Cluj Napoca / Romania, Romania*
- RR04 Magneto-motive force and torque analysis of squirrel cage induction motor with rotor or stator faults
Cheol Soo Goo¹, Seok-myeong Jang² and Yu Seop Park², ¹*Instrumentation and Control Assessment Department, Korea Institute of Nuclear Safety, Korea; ²Electrical Engineering, Chungnam National University, Korea*
- RR05 Evaluation of materials degradation of ferromagnetic steels for various magnetized states using a hysteresis scaling law
Satoru Kobayashi*, Yusuke Ishibashi and Ryo Baba, *Department of Materials Science and Engineering, Iwate University, Japan*
- RR06 Theoretical design of magnetic energy harvesting module
Kunihsia Tashiro*, Hiroyuki Wakiwaka and Yu Uchiyama, *Shinshu University, Japan*
- RR07 A study on detecting and determining the shape of small axial cracks by using magnetic flux leakage in ndt system of pipe
Hui Min Kim and Gwan Soo Park*, *School of Electronic and Electrical Engineering, Pusan National University, Korea*
- RR08 Control of working temperature of isothermal magnetic entropy change by hydrogen absorption into $\text{La}_{0.8}\text{Nd}_{0.2}(\text{Fe}_{0.88}\text{Si}_{0.12})_{13}$ for magnetic refrigerant
S Fujieda*, A Fujita², K Fukamichi¹ and S Suzuki¹, ¹*Institute of Multidisciplinary Research for Advanced Materials, Tohoku Univ, Japan; ²Dept. of Materials Science, Graduate School of Engineering, Tohoku Univ, Japan*

- RR09 Characteristic analysis of induction motor for electric vehicle according to electric loading and magnetic loading
Ki Young Sung¹ and Ki-chan Kim^{2*}, ¹*SPG Co., Ltd., Korea; ²Hanbat national university, Korea*
- RR10 Torque characteristics of interior permanent magnet synchronous motor for electrical hydraulic power steering system
Su-jin Hwang¹ and Ki-chan Kim^{2*}, ¹*Daedong movel company, Korea; ²Hanbat national university, Korea*
- RR11 Edge auxiliary teeth design of stationary discontinuous armature PM-LSM with concentrated winding
Yong-jae Kim¹, Sung-jin Kim^{1*} and Sang-yong Jung², ¹*Department of Electrical Engineering, Chosun University, Korea; ²School of Information and Communication Engineering, Sungkyunkwan University, Korea*
- RR12 Inductively coupled LC resonators as displacement sensor
Yongmin Kim and Kwang-ho Shin*, *Dept. of Information and Communication Engineering, Kyungsung University, Korea*
- RR13 Magnetic NDE for sensitization of Inconel 600 alloy
Hiroaki Kikuchi, Takaki Sumimoto, Yasuhiro Kamada and Satoru Kobayashi, *Faculty of Engineering, Iwate University, Japan*
- RR14 Comparison of characteristics between the PM synchronous motor and the induction motor for electric vehicle
Mi-jung Kim, Ik-sang Jang, Ki-doek Lee, Jae-jun Lee, Jeong-ho Han, Tae-chul Jeong and Ju Lee*, *Hanyang University, Korea*
- RR15 Comparison of simultaneously measured pulse waveforms from both hands using permanent magnet-hall pulsimeter sensors
Sang-suk Lee¹, Jong-gu Choi², Il-ho Son¹, Keun-ho Kim¹, Nam-kyu Lee¹ and Hyun-sung Cho¹, ¹*Oriental Biomedical Engineering, Sangji University, Korea; ²Eastern-Western Biomedical Engineering, Sangji University, Korea*
- RR16 (Withdrawn) A study on new permanent magnet configuration for high thrust density in permanent magnet synchronous linear motor
Taewoo Kim and Junghwan Chang*, *Electrical Engineering, Dong-A University, Busan, 604-714, Korea*
- RR17 Design of stationary pole pieces in a coaxial magnetic gear
Daekyu Jang and Junghwan Chang*, *Electrical Engineering, Dona-A University, Saha-gu, Busan, 604-714, Korea*
- RR18 Design techniques for reducing torque ripple in permanent magnet flux switching motor
Daohan Wang¹, Xiuhe Wang² and Sang-yong Jung^{1*}, ¹*Sungkyunkwan University, Korea; ²Shandong University, China*
- RR19 (Withdrawn) The analysis of line-start permanent magnet machine with saliency ratio
Kwang Hee Kim, Jian Li and Yun Hyun Cho*, *Dong-A University, Korea*
- RR20 (Withdrawn) Analysis of non-linear characteristics of linear compressor
Park Daegeun and Cho Yunhyun*, *Dong-A University, Korea*
- RR21 Torque harmonics and reduction design characteristics of induction motor for electric vehicle propulsion
Kyung-won Jeon¹, Seungho Lee¹, Yong-jae Kim² and Sang-yong Jung^{1*}, ¹*School of Electronic and Electrical Engineering, Sungkyunkwan Univ, Korea; ²Dept. of Electrical Engineering, Chosun University, Korea*
- RR22 Numerical analysis on iron loss and pm loss of permanent magnet synchronous motor considering the carrier harmonics
Yun-ho Jeong¹, Kyung-won Jeon¹, Yong-jae Kim² and Sang-yong Jung^{1*}, ¹*School of Electronic and Electrical Engineering, Sungkyunkwan Univ, Korea; ²Dept. of Electrical Engineering, Chosun University, Korea*
- RR23 Defect depth estimation based on the analysis of interference defects on the underground gas pipelines
Min-Ho Kim¹, Bok-Jin Oh¹, and Doo-Hyun Choi^{2*}, ¹*Graduate School of Electrical Engineering and Computer Science, Kyungpook National Univ, Korea; ²School of Electronics Engineering, Kyungpook National Univ, Korea*

- RR24** (Withdrawn) Comparison on electromagnetic losses of super high speed PM motor/generator with slot and slotless stators
Jin Hak Jang¹, Jian Li² and Yun Hyun Cho^{1*}, ¹Dong-A University, Korea; ²Dong-A University, China
- RR25** A study on Voltage-PWM control of switched reluctance generator at low speed
Sun Ning¹, Dawoon Choi², Jian Li¹ and Yunhyun Cho^{2*}, ¹DongA-university, China; ²DongA-university, Korea
- RR26** The measurement procedure of the equivalent core loss in a PM motor
Guo Jhiih Yan^{1*}, Ming-hung Jian¹ and Chia-sheng Huang², ¹Micro/Meso Mechanical Manufacturing R&D Section, Metal Industries Research & Development Centre, Taiwan; ²Codent Tech Co. Ltd, Taiwan
- RR27** MFL signal enhancement based on exponential smoothing
Su-yeon Jeong¹, Jong-hwa Kim² and Doo-hyun Choi^{2*}, ¹Graduate School of Electrical Engineering and Computer Science, Kyungpook National Univ., Korea; ²School of Electronics Engineering, Kyungpook National Univ., Korea
- RR28** Electromagnetic separation of the brown coal ash of thermal power stations
Shavkat Malikov¹, Valeriy Pikul¹, Nuranya Mukhamedshina¹, Vladimir Sandalov² and Elvira Ibragimova^{2*}, ¹Nuclear Physics, Institute of Nuclear Physics, Uzbekistan; ²Radiation Physics of Solids and Material Science, Institute of Nuclear Physics, Uzbekistan
- RR29** Studies on viscosity in ferrofluids of Fe_3O_4
Han Gu¹, Zhaozhen Jiang², Aimei Zhang³ and Xiaoshan Wu², ¹Advance Functional Materials Lab and Department of Physics, Changshu Institute of Technology, Changshu, China; ²Lab of Solid State Microstructures, Dept Physics, Nanjing University, China; ³College of Science, Hohai University, China
- RR30** Non-contact magnetic evaluation of ferromagnetic plate and its compensation of unknown air gap
Young-hak Kim¹ and Kwang-ho Shin^{2*}, ¹Pukyong National University, Korea; ²Dept. of Information and Communication Engineering, Kyungsung University, Korea
- RR31** (Withdrawn) The several analysis techniques of high speed induction motor for copper die casting
Do-kwan Hong^{1*}, Jae-hak Choi¹, Byung-chul Woo¹, Dae-hyun Koo¹ and Chan-woo Ahn², ¹Korea Electrotechnology Research Institute, Korea; ²Dong-A University, The department of mechanical engineering, Korea
- RR32** Effect of magnetic reynolds number variation on MHD convection inside an enclosure
Mohsen Pirmohammadi*, MAPNA Group, Iran

SA: Multiferroics IV

July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Jonghyun Song (Chungnam National University, Korea)

- SA01** Magnetic annealing effects on properties of the multilayer $\text{BaTiO}_3/\text{CoFe}_2\text{O}_4$ thin films
Yuqiang Dai¹, Jianming Dai^{1*}, Xianwu Tang¹ and Qiangchun Liu², ¹Key Laboratory of Materials Physics, Institute of Solid State Physics, Chinese Academy of Sciences, China, ²School of Physics and Electronic Information, Huaibei Normal University, China
- SA02** (Withdrawn) Magnetoelectric CoFe_2O_4 -PZT thin film composites grown by pulsed laser deposition
Ioanna Giouroudi^{1*}, Mohammed Alnassar², Roland Groessinger³ and Juergen Kosel², ¹Institute of Sensor and Actuator Systems, Vienna University of Technology, Austria; ²Division of Physical Sciences and Engineering, King Abdullah University of Science and Technology, Saudi Arabia; ³Institute of Solid State Physics, Vienna University of Technology, Austria
- SA03** Synthesis and magnetic property of multiferroic DyMnO_3 nanoparticles in mesoporous silica
Takayuki Tajiri^{1*}, Kenta Hamamoto², Yuhki Ando², Hiroyuki Deguchi², Masaki Mito² and Atsushi Kohno¹, ¹Faculty of Science, Fukuoka University, Japan; ²Faculty of Engineering, Kyushu Institute of Technology, Japan

- SA04** Magnetic properties of $\text{Co}_{1-x}\text{Mn}_x\text{Fe}_2\text{O}_4$ ($x=0-0.5$) - PZT thin films fabricated by sol-gel spin coating method
M. Khodaei, S. A. Seyyed Ebrahimi* and R. Vaghari, Center of Excellence for Magnetic Materials, School of Metallurgy and Materials, University of Tehran, Iran
- SA05** M doping element localization by the molecular field theory in the $\text{Ga}_x\text{Fe}_{2-x}\text{O}_3:\text{M}$ thin films
Christophe Lefevre^{1*}, Ran Hee Shin², Ji Hye Lee², Seol Hee Oh², Alexandre Thomasson¹, Francois Roulland³, Christian Meny¹, William Jo² and Nathalie Viart³, ¹CNRS, France; ²Department of Physics, Ewha Womans University, Korea; ³Universite de Strasbourg, France
- SA06** Interplay between magnetization and polarization in epitaxial $(\text{Ga},\text{Fe})_2\text{O}_3$ thin films with additional ion-substitutions into Fe sites
R. H. Shin¹, J. H. Lee¹, S. H. Oh², W. Jo^{2*}, C. Lefevre³, F. Roulland³, A. Thomasson³, C. Meny³ and N. Viart³, ¹Department of Physics and CNRS-EWHA International Research Center, Ewha Womans University, Korea; ²Department of Physics, Ewha Womans University, Korea; ³Institute of Physics and Chemistry of Materials of Strasbourg, France
- SA07** Fabrication and characterization of heusler-alloy/perovskite heterostructures
Kohei Kobayashi, Keita Sakuma*, Naoto Fukutani, Tetsuya Miyawaki, Kenji Ueda and Hidefumi Asano, Nagoya University, Japan
- SA08** Optical properties of $(\text{SrMnO}_3)_n/(\text{LaMnO}_3)_{2n}$ superlattices: An insulator-to-metal transition observed in the absence of disorder
Andrea Perucchi¹, Leonetta Baldassarre¹, Alessandro Nucara², Paolo Calvani², Carolina Adamo³, Darrell G Schlom³, Pasquale Orgiani⁴, Luigi Maritato⁴ and Stefano Lupi⁵, ¹Sincrotrone Trieste, Italy, ²CNR-SPIN and University of Rome 'Sapienza', Italy, ³Cornell University, USA, ⁴CNR-SPIN and University of Salerno, Italy; ⁵CNR-IOM and University of Rome 'Sapienza', Italy
- SA09** Preparation of hexagonal YFeO_3 powder and thin film
Hanju Lee, Kyoungchul Kim, Sujin Lee, Sul A Choi and Kiejin Lee*, physics, Department of physics, Sogang university, Korea
- SA10** Magnetic hysteretic effects in $\text{LaAlO}_3/\text{SrTiO}_3$ Heterostructures
Veerendra Kumar Guduru¹, Alix Mccollam¹, Sander Wenderich², Michelle Kruize², Uli Zeitler^{1*}, Alexander Brinkman², Jan Kees Maan¹, Mark Huijben², Hans Hilgenkamp², Gertjan Koster², Guus Rijnders² and Dave Blank², ¹HFML/IMM, Radboud University Nijmegen, Netherlands; ²MESA+ Institute for Nanotechnology, University of Twente, Netherlands
- SA11** Synthesis and magnetoelectric properties of multiferroic composites on the cobalt ferrite - pzt system
C. Miclea^{1*}, L. Amarande¹, L. Trupina¹, M. Cioangher¹, C. T. Miclea² and C. F. Miclea¹, ¹National Institute for Materials Physics, Bucharest, Romania; ²Hyperion University, Bucharest, Romania
- SA12** (Withdrawn) Detailed structural study of $\text{BiFeO}_3/\text{SrRuO}_3$ heterostructures grown on $\text{SrTiO}_3(001)$ substrates
Claribel Dominguez¹, John Edward Ordóñez¹, María Elena Gomez¹, Wilson Lopera¹ and Pedro Prieto², ¹Thin Film Group, Department of Physics, Universidad del Valle, A.A. 25360, Cali, Colombia; ²Center of Excellence for Novel Material CENM, Calle 13 # 100-00 320-1026, Cali, Colombia
- SA13** (Moved to other session) Lattice engineering on transition metal oxide thin film
Chang Uk Jung*, Department of Physics, Hankuk University of Foreign Studies, Korea
- SA14** Magnetisation in different multiferroic YMO (Yttrium Manganese Oxide) thin films
Manish Kumar*, R.J. Choudhary and D.M. Phase, UGC-DAE CSR, UGC-DAE CSR Indore, Madhya Pradesh, India
- SA15** Dependence of magnetoelectric response on magnetostrictive content in composite multiferroics
Mohsin Rafique^{1*}, Syed Qamar Ul Hassan¹, Muhammad Saifullah Awan² and Sadia Manzoor¹, ¹Physics, COMSATS Institute of Information Technology, Islamabad, Pakistan; ²Center for Nano and Micro Devices (CNMD), COMSATS Institute of Information Technology, Islamabad, Pakistan

POSTER PRESENTATION**July 13 (Fri)**

- SA16 Raman analyses of oxygen defects in hexagonal HoMnO_3 thin films**
 Xiang-bai Chen¹, Nguyen Thi Minh Hien², D. Lee³, T. W. Noh³ and In-sang Yang², ¹Konkuk University, Korea; ²Ewha Womans University, Korea; ³Seoul National University, Korea
- SA17 Preparation and properties of inverse perovskite Mn_3GaN thin films**
 Hiroki Tashiro, Ryosuke Suzuki*, Tetsuya Miyawaki, Kenji Ueda and Hidefumi Asano, Department of engineering, Nagoya University, Japan
- SA18 Ferroelectric and magnetic properties of BiMnO_3 thin films**
 Min-hwa Jung and Yoon-hee Jeong*, Department of Physics, Pohang University of Science and Technology, Korea
- SA19 Ferroelectric polarization induced magnetic anisotropy in $\text{Co}_{40}\text{Fe}_{40}\text{B}_{20}/\text{YMnO}_3$ multiferroic heterostructure**
 Jiawei Wang¹, Yanggang Zhao^{1*}, Peisen Li¹, Sen Zhang¹, Syed Rizwan², Xiufeng Han², Xuefeng Sun³, Yuanjun Yang⁴, Qianping Chen¹ and Xin Zhang¹, ¹Department of Physics and State Key Laboratory of Low-Dimensional Quantum Physics, Tsinghua University, China, ²Beijing National Laboratory for Condensed Matter Physics, Chinese Academy of Sciences, China, ³Hefei National Laboratory for Physical Sciences at the Microscale, University of Science and Technology of China, China, ⁴National Synchrotron Radiation Laboratory, University of Science and Technology of China, China
- SA20 Ferroelectric-domain-switching controlled magnetism in CoFeB/PMN-PT multiferroic heterostructure**
 Peisen Li¹, Yonggang Zhao^{1*}, Sen Zhang¹, Lifeng Yang¹, Syed Rizwan², Qianping Chen¹, Jiawei Wang¹ and Xiufeng Han², ¹Department of Physics and State Key Laboratory of Low-Dimensional Quantum Physics, Tsinghua University, China; ²Beijing National Laboratory for Condensed Matter Physics, Chinese Academy of Sciences, China
- SA21 Multiferroic properties of $\text{BaTiO}_3 - \text{Zn}_{1-x}\text{Co}_x\text{O}$ multilayer thin films**
 Anuraj S¹, Shivaraman Ramaswamy^{1*}, Helen Annal Therese¹, C Gopalakrishnan¹ and A Karthigeyan², ¹Nanotechnology Research Center, SRM University, India; ²Department of Physics and Nanotechnology, SRM University, India
- SA22 Study of structural phase transition and multiferroic properties of Samarium substituted BiFeO_3 thin films**
 Mahdiyar Bagheri, Shivaraman Ramaswamy*, Helen Annal Therese and C Gopalakrishnan, Nanotechnology Research Center, SRM University, India
- SA23 Study of ferroelectricity in Eu substituted BiMnO_3 films**
 Shivaraman Ramaswamy*, Helen Annal Therese and C Gopalakrishnan, Nanotechnology Research Center, SRM University, India
- SA24 Experimental evidence for Exchange bias in polycrystalline $\text{BiFeO}_3/\text{Ni}_{81}\text{Fe}_{19}$**
 Tony Hauguel, Souren P Pogossian, David Toyo Dekadjevi*, Jean-philippe Jay, Mikhail Indenbom, David Spenato and Jamal Ben Youssef, Laboratoire de Magnetisme de Bretagne, CNRS-Universite Europeene de Bretagne, France

SB: Superconductivity IV

July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)
 Chairperson: Hyun Jung Lee (KIAS, Korea)

- SB01 Parit variation in the rectangular array of periodic holes on superconducting thin film**
 Kamran Muhammad^{1*} and Qiu Xiang Gang², ¹Physics, COMSATS Institute of IT, Islamabad, Pakistan, ²Institute of Physics, Chinese Academy of Sciences, Beijing, China

POSTER PRESENTATION**July 13 (Fri)**

- SB02 Charge disproportion, spin and orbital states in the tri-layered nickelate $\text{La}_4\text{Ni}_3\text{O}_8$ from first principles**
 Hua Wu*, Department of Physics, Fudan University, Shanghai, China
- SB03 Carrier doping to the novel layered nickelate**
 Yoshiki Sakurai, Yoshihide Kimishima and Masatomo Uehara*, Yokohama national university, Japan
- SB04 Occurrence of superconductivity and structural variations in the $\text{Sr}_{1-x}\text{T}_{2x}\text{Ge}_2$ layer system ($T = \text{Ni}, \text{Pd}, \text{and Pt}; x \geq 0$)**
 H. C. Ku¹, I. A. Chen¹, C. H. Hung¹, C. Y. Lin¹, S. J. Wang¹, Y. B. You¹, M. F. Tai¹ and Y. Y. Hsu², ¹Department of Physics, National Tsing Hua University, Taiwan; ²Department of Physics, National Taiwan Normal University, Taiwan
- SB05 (Withdrawn) Fermi surface study on the rattling-induced superconductor KO_2O_6**
 Taichi Terashima^{1*}, Nobuyuki Kurita¹, Andhika Kiswandhi², Eun-sang Choi², James S. Brooks², Kota Sato³, Jun-ichi Yamaura³, Zenji Hiroi³, Hisatomo Harima⁴ and Shinya Uji¹, ¹National Institute for Materials Science, Japan; ²National High Magnetic Field Laboratory, USA, ³ISSP, Univ. of Tokyo, Japan, ⁴Graduate School of Scienece, Kobe Univ., Japan
- SB06 Transient analysis of the current density and temperature distribution of the MgB_2 superconductor in the He atmosphere**
 H. M. Iftekhar Jaim¹ and Klaus Barner², ¹Department of Mechanical, Material and Aerospace Engineering, University of Central Florida, USA; ²Department of Physics (4 Physik), University of Gottingen, F. Hund Platz 1, 37077 Gottingen, Germany
- SB07 Meissner-like effect on normal- superfluid interface of imbalanced Fermi gas**
 Neda Ebrahimian* and Mohammad Mehrafarin, Physics Department, Amirkabir University of Technology, Tehran 15914, Iran
- SB08 Magnetic properties and structure evolution along R_2RhIn_8 series**
 Petr Cermak^{1*}, Marie Kratochvilova¹, Jan Prokleska¹, Marie-helene Lemee-cailleau², Bachir Ouladdiaf² and Pavel Javorsky¹, ¹Department of Condensed Matter Physics, Charles University in Prague, Czech Republic, ²Institut Laue-Langevin, France
- SB09 Second magnetization peak and magnetic field distribution in superconductor**
 Denis Gokhfeld, L.V. Kirensky Institute of Physics, Russia
- SB10 Superconductivity in LuGe_2 single crystals**
 N. H. Sung¹, A. I. Coldea², S. K. Choi², H. Kim^{3,4}, R. Prozorov^{3,4}, and B. K. Cho^{1,5*}, ¹School of Materials Science and Engineering, Gwangju Institute of Science and Technology (GIST), Gwangju 500-712, Korea, ²Clarendon Laboratory, Department of Physics, University of Oxford, Oxford OX1 3PU, United Kingdom, ³The Ames Laboratory, Ames, Iowa 50011, USA, ⁴Department of Physics and Astronomy, Iowa State University, Ames, Iowa 50011, USA, ⁵Department of Photonics and Applied Physics, Gwangju Institute of Science and Technology (GIST), Gwangju 500-712, Korea
- SB11 Mutual interplay of magnon BEC and superconductivity**
 Zygmunt Bak*, Institute of Physics, Institute of Physics, Jan Dlugosz University, Czestochowa, Poland, Poland
- SB12 Studies of the absolute value of lambda in unconventional superconductors**
 Jeehoon Kim*, Filip Ronning, N. Haberkorn, L. Civale, J. D. Thompson and Roman Movshovich, Los Alamos National Laboratory, USA
- SB13 Self-consistent calculations of the effects of disorder in d- and s-wave superconductors**
 Long He and Yun Song*, Department of Physics, Beijing Normal University, China
- SB14 Superconductivity and structural transition of RPt_2Si_2 ($R = \text{Y}, \text{La}, \text{Lu}$)**
 Yutaro Nagano^{1*}, Nobutaka Araoka¹, Akihiro Mitsuda¹, Hirofumi Wada¹, Masaki Ichihara², Masahiko Isobe² and Yutaka Ueda², ¹Department of Physics, Kyushu University, Japan, ²Institute for Solid State Physics, University of Tokyo, Japan

POSTER PRESENTATION**July 13 (Fri)**

- SB15 Magnetic property in ferromagnetic superconductor UGe₂ above ferromagnetic critical pressure**
Naoyuki Tateiwa^{1*}, Yoshinori Haga¹, Tatsuma D Matsuda¹, Eetsuji Yamamoto¹, Yoshichika Onuki² and Zachary Fisk³, ¹Advanced Science Research Center, Japan Atomic Energy Agency, Japan; ²Graduate School of Science, Osaka University, Japan; ³University of California, USA
- SB16 Electron and hole transmission through superconductor - normal metal interfaces**
Kurt Gloos* and Elina Tuuli, Department of Physics and Astronomy, University of Turku, Finland
- SB17 Magnetic field-induced odd-frequency superconductivity in s-wave superconductors**
Masahige Matsumoto^{1*}, Mikito Koga² and Hiroaki Kusunose³, ¹Department of Physics, Faculty of Science, Shizuoka University, Japan; ²Department of Physics, Faculty of Education, Shizuoka University, Japan; ³Department of Physics, Ehime University, Japan
- SB18 Enhanced pinning properties and the zero-resistance state in melt-textured high-Tc superconductors probed by pulsed magnetic fields**
Fabio Teixeira Dias^{1*}, Valdemar Das Neves Vieira¹, Douglas Langie Da Silva¹, Sabrina Esperanca Nunes¹, Frederik Wolff-Fabris², Erik Kampert², Jacob Schaf³ and Joan Josep Roa Rovira⁴, ¹Department of Physics, Universidade Federal de Pelotas, 96010-900, Pelotas, Brazil; ²Dresden High Magnetic Field Laboratory, HZ Dresden-Rossendorf, 01314, Dresden, Germany; ³Universidade Federal do Rio Grande do Sul, 91501-970, Porto Alegre, Brazil; ⁴Université de Poitiers, 86962, Poitiers, France
- SB19 Phenomena of vortex pinning by composite pinning array on Nb films**
Sheng Hao Wang^{1*}, Lance Horng¹, T. C. Wu², Chien-miao Chen¹, R Cao¹ and J. C. Wu¹, ¹Dept. of Physics, National ChangHua University of Education, Taiwan; ²Dept. of Electronic Engineering, National Formosa University, Taiwan
- SB20 Superconducting fluctuations near the Mott critical point**
Moon-sun Nam¹, Cecile Mezire², Patrick Batail² and Arzhang Ardavan¹, ¹The Clarendon Laboratory, Department of Physics, University of Oxford, United Kingdom; ²Laboratoire MOLTECH-Anjou, UMR 6200 CNRS-Université d'Angers, 2 Boulevard Lavoisier, F-49045 Angers, France
- SB21 (Withdrawn) Anomalous hall effect in superconductors with spin-orbit interaction**
Pedro D Sacramento¹, M. A. N. Araujo², V R Vieira¹, V K Dugaev³ and J Barnas⁴, ¹Departamento de Física and CFIF, Instituto Superior Técnico, TULisbon, Portugal; ²Departamento de Física and CFIF, Universidade de Evora, Portugal; ³Department of Physics, Rzeszow University of Technology, Poland; ⁴Department of Physics, Adam Mickiewicz University, Poland
- SB22 Analysis of the local current density in HTS coated conductors using low-temperature scanning laser and hall probe microscopy**
Sang Kook Park, Bo Ram Cho, Hee Yeon Park and Hyeong-cheol Ri*, Department of Physics, Kyungpook National University, Korea
- SB23 Cooper pairing between conduction and localized electrons in heavy-fermion systems**
Keisuke Masuda^{1*} and Daisuke Yamamoto², ¹Department of Physics, Waseda University, Japan; ²Condensed Matter Theory Laboratory, RIKEN, Japan
- SB24 Low-temperature thermoelectric properties of the electron-doped Perovskites Sr_{1-x}CaxTi_{1-y}NbyO₃**
Tetsuji Okuda^{1*}, Junichi Fukuyado¹, Kurahito Narikiyo¹, Mitsuru Akaki² and Hideki Kuwahara², ¹Kagoshima University, Japan; ²Sophia University, Japan
- SB25 Evolution of pairing potential in ladder materials under renormalization group transformations**
Yen-chen Lee^{1*}, Wen-min Huang² and Hsiu-hau Lin¹, ¹Department of Physics, National Tsing Hua University, Taiwan; ²Physics Division, National Center for Theoretical Sciences, Taiwan

POSTER PRESENTATION**July 13 (Fri)**

- SB26 Evidence for multiband order parameters in the strong-coupling LaRu₄As₁₂ Skutterudite Superconductor**
Tomasz Cichorek¹, Lukasz Bochenek¹, Ryszard Wawryk¹, Roman Puzniak² and Zygmunt Henkie¹, ¹Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław, Poland; ²Institute of Physics, Polish Academy of Sciences, Warsaw, Poland
- SB27 NMR Study of magnetic order and the FFLO state in CeCoIn₅**
Ken-ichi Kumagai^{1*}, Hiroyuki Shishido², Takasada Shibauchi² and Yuji Matsuda², ¹Department of Physics, Hokkaido University, Sapporo, 060-0810, Japan; ²Department of Physics, Kyoto University, Kyoto 606-8502, Japan
- SB28 MgB₂ coated conductors grown at various temperatures by hybrid physical-chemical vapor deposition**
Mahipal Ranot¹, K. H. Cho¹, Soon-gil Jung¹, Won Nam Kang^{1*}, S. Oh² and K. C. Chung³, ¹Physics, Sungkyunkwan University, Suwon, Korea; ²National Fusion Research Institute, Korea; ³Korea Institute of Machinery and Materials, Korea
- SB29 Low temperature properties of the weakly-coupled non-centrosymmetric superconductor LaNi₂**
Jian Chen¹, Jing Lei Zhang¹, Lin Jiao¹, Lin Yang¹, Tian Shang¹, Michael Nicklas², Frank Steglich² and Hui Qiu Yuan^{1*}, ¹Physical Department, Zhejiang University, China; ²Max Planck Institute for the Chemical Physics of Solids, Dresden, Germany
- SB30 Magnetic penetration depth and \$H\$-\$T\$ phase diagram in SrPd₂Ge₂**
H. Kim¹, N. H. Sung², M. A. Tanatar¹, B. K. Cho² and R. Prozorov^{1*}, ¹The Ames Laboratory, USA, ²School of Materials Science and Engineering, Gwangju Institute of Science and Technology, Korea
- SB31 Eliashberg function of the overdoped Bi₂₂₁₂ superconductors deduced from the high resolution laser ARPES intensity**
Jin Mo Bok^{1*}, Han-yong Choi¹, Junfeng He², X. J. Zhou³ and C. M. Varma⁴, ¹Department of Physics, SungKyunKwan University, Suwon 440-746, Korea, ²Institute of Physics, Chinese Academy of Sciences, Beijing 100190., China; ³Institute of Physics, Chinese Academy of Sciences, Beijing 100190, China; ⁴Department of Physics and Astronomy, University of California, Riverside, CA 92521, USA
- SB32 The momentum and frequency dependences of the self-energy induced by the spin fluctuations for the cuprate superconductors**
Seung Hwan Hong and Han-yong Choi*, Department of Physics, SungKyunKwan University, Korea
- SC: Superconductivity VI**
July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)
Chairperson: Myung-Hwa Jung (Sogang University, Korea)
- SC01 Novel non-centrosymmetric superconductors in 113 and 111 crystal structures**
Friedrich Kneidinger^{1*}, Ernst Bauer¹, Herwig Michor¹, Gerfried Hilscher¹, Isolde Zeiringer², Peter Rogl², Nataliya Melnychenko³, Leonid Salamakha⁴ and Adrian Hillier⁵, ¹Institute of solid state physics, Vienna University of Technology, Austria; ²Institute of physical chemistry, University of Vienna, Austria; ³Inorganic Chemistry Department, Ivan Franko National University of Lviv, Ukraine; ⁴Ivan Franko Lviv National University, Ukraine; ⁵ISIS facility, STFC Rutherford Appleton Laboratory, Harwell Science and Innovation Campus, United Kingdom
- SC02 Non-fermi liquid behavior of d-wave superconductor**
Pankaj Singh*, Ajay Pratap Singh Gahlot, Manju Rani and Partha Goswami, Physics Department, Deshbandhu College, University Of Delhi, India

POSTER PRESENTATION**July 13 (Fri)**

- SC03** Low temperature enhancement of the critical current in CeCoIn₅. Possible signature of magnetic order
C. F. Miclea^{1*}, M. Nicklas², A. C. Mota³, M. M. Altarawneh⁴, C. Miclea¹, N. Harrison⁴, J. Thompson⁴, F. Steglich² and R. Movshovich⁴, ¹National Institute for Materials Physics, 077125 Bucharest-Magurele, Romania; ²Max-Planck-Institute for Chemical Physics of Solids, 01187 Dresden, Germany; ³Solid State Laboratory, ETH Zurich, Switzerland; ⁴Los Alamos National Laboratory, Los Alamos, New Mexico 87545, USA
- SC04** Superconducting phase diagram in fcc phase of Cs₃C₆₀: A pressure dependence of resistivity
Takashi Kambe*, Yuta Suzuki, Seizi Shibasaki, Keitaro Tomita and Yoshihiro Kubozono, Physics, Okayama university, Japan
- SC05** The superconducting phases of URu₂Si₂ from sound velocity measurements
B S Shivaram¹, V W Ulrich¹ and D G Hinks², ¹Physics, University of Virginia, USA; ²Materials Science Division, Argonne National Labs, USA
- SC06** Electronic structure of a superconducting boride, ZrB₁₂
Sangeeta Thakur¹, Deep Narayan Biswas Biswas², Nishaina Sahadev³, Geetha Balakrishnan⁴ and Kalobaran Maiti^{5*}, ¹Department of Condensed Matter Physics and Materials' Science, Tata Institute of Fundamental Research Colaba, Mumbai - 400 005, India; ²Tata Institute of Fundamental Research Colaba, Mumbai - 400 005, India; ³Tata Institute of Fundamental Research, Colaba, Mumbai - 400 005, India; ⁴Department of Physics, University of Warwick, Coventry, CV4 7AL, UK, United Kingdom; ⁵Tata Institute of Fundamental Research Colaba Mumbai 400005, India
- SC07** On the nature of an energy barrier between ($\pi, 0$) and (0, π) magnetic orders in Fe pnictides
Alexander Yaresko^{1*}, Lilia Boeri², Vladimir Antropov³ and Ole Krogh Andersen², ¹Andersen, Max Planck Institute for Solid State Research, Germany; ²Max Planck Institute for Solid State Research, Germany; ³Ames Laboratory, Ames, Iowa, USA
- SC08** Electronic structures and magnetic properties of LnFeAsO
Chang Hyun Yi, Ju Young Kim, Jae Kyung Chang, and Joo Yull Rhee, Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea
- SC09** Phase transition of a heavy fermion superconductor in a high magnetic field : entanglement analysis
Reza Afzali^{1*} and Neda Ebrahimian², ¹Physics Department, K. N. Toosi University of Technology, Tehran 15418, Iran; ²Physics Department, Amirkabir University of Technology, Tehran 15914, Iran
- SC10** Spin and charge excitations in antiferromagnetic metallic phase in multi-orbital systems: A case study of chromium
Koudai Sugimoto¹, Eiji Kaneshita², Kenji Tsutsui³ and Takami Tohyama^{1*}, ¹Yukawa Institute for Theoretical Physics, Kyoto University, Japan; ²Sendai National College of Technology, Japan; ³Condensed Matter Science Division, JAEA, Japan
- SC11** The dirty crossover - signature of a robust superfluid in the unitary regime
IIT Guwahati, IIT Guwahati, India
- SC12** Spin-orbit coupling and the superconductivity in simple-cubic polonium
Chang-jong Kang, Kyoo Kim and B. I. Min, Physics, POSTECH, Korea
- SC13** Stability of FFLO states in optical lattices with layered structure
Akihisa Koga* and Yasuharu Okawauchi, Department of Physics, Tokyo Institute of Technology, Japan
- SC14** Flux quantization and its magnetic relaxation in a micrometer-sized superconducting ring of niobium
Jae-hyuk Choi^{1*}, Heon-hwa Choi¹, Yun-won Kim², Soon-gul Lee² and Mahn-soo Choi³, ¹Division of Physical Metrology, Korea Reserach Institute of Standards and Science, Korea; ²Dep. of Display and Semiconductor Physics, Korea University, Korea; ³Dep. of Physics, Korea University, Korea

POSTER PRESENTATION**July 13 (Fri)**

- SC15** Measurement of rat biomagnetic signals by using a HTS-SQUID system
In-seon Kim* and San Ahn, Division of Convergence Technology, Korea Research Institute of Standards and Science, Korea
- SC16** Evolution of the effective mass approaching the quantum critical point in the heavy fermion superconductor CePt₂In₃
Jakob Kanter^{1*}, Philip J. W. Moll¹, Filip Ronning², Sven Friedemann³, Patricia L Alireza³, Michael Sutherland³, P. Tobash², J. Thompson², Eric D. Bauer² and Bertram Batlogg¹, ¹Laboratory for Solid State Physics, ETH Zurich, Switzerland; ²Los Alamos National Laboratory, Los Alamos, New Mexico, US; ³Cavendish Laboratory, University of Cambridge, United Kingdom
- SC17** (Moved to other session) Thermal stability of an epoxy-impregnated HTS racetrack coil without turn-to-turn insulation for rotating machines
Oh Jun Kwon, Kwang Lok Kim, Yoon Hyuck Choi, Hyun-jin Shin and Haigun Lee*, Department of Materials Science and Engineering, Korea University, Korea
- SC18** (Moved to other session) Design, fabrication, and testing of a cooling system using solid nitrogen for a 3 T/60-mm RT bore superconducting HGMS
Jung-bin Song, Kwang Lok Kim, Dong Gyu Yang, Yoon Hyuck Choi, Jongseok Lee and Haigun Lee*, Department of Materials Science and Engineering, Korea University, Korea
- SC19** (Moved to other session) Purification of chemical mechanical polishing wastewater using a 2G HTS high gradient magnetic separation system
Dong Gyu Yang, Jung-bin Song, Young-gyun Kim, Jongseok Lee, Yeonjoo Park and Haigun Lee*, Department of Materials Science and Engineering, Korea University, Korea
- SC20** (Moved to other session) Effect of liquid cryogen on a 2G HTS magnet using a mixed cryogen cooling system
Kwang Lok Kim, Jung-bin Song, Yoon Hyuck Choi, Dong Gyu Yang and Haigun Lee*, Department of Materials Science and Engineering, Korea University, Korea
- SC21** (Moved to other session) Removal of silica and copper ions from CMP wastewater via magnetic seeding aggregation using superconducting HGMS
Jongseok Lee, Jung-bin Song, Dong Gyu Yang, Yeonjoo Park and Haigun Lee*, Department of Materials Science and Engineering, Korea University, Korea
- SC22** (Moved to other session) Removal of silica and copper ions from CMP wastewater via magnetic seeding aggregation using superconducting HGMS
Jongseok Lee, Jung-bin Song, Dong Gyu Yang, Yeonjoo Park and Haigun Lee*, Department of Materials Science and Engineering, Korea University, Korea
- SC23** Powder neutron diffraction study of HoCoGa₅
Riki Kobayashi^{1*}, Koji Kaneko¹, Shuichi Wakimoto¹, Naoyuki Sanada², Ryuta Watanuki², Kazuya Suzuki² and Songxue Chi³, ¹Quantum beam science directolate, Japan atomic energy agency, Japan; ²Department of Advanced Materials Chemistry, Yokohama National University, Japan; ³Quantum beam science directolate, Oak Ridge National Laboratory, USA
- SC24** Evidence of two-band gap superconductivity in LaRu₂P₂
Tetsuya Fujiwara^{1*}, Harunobu Sagawa¹, Kazuyuki Matsubayashi², Yoshiya Uwatoko² and Toru Shigeoka¹, ¹Graduate School of Science and Engineering, Yamaguchi University, Japan; ²Institute for Solid State Physics, University of Tokyo, Japan
- SC25** Proximity effect for asymmetrical three layered F/S structures in external magnetic field
Maxim V. Avdeev, Sergey L. Tsarevskii and Yurii N. Proshin*, Theoretical Physics Department, Kazan Federal University, Russia

POSTER PRESENTATION**July 13 (Fri)**

SC26 Influence of proximity effect with Umklapp processes on the Josephson current in the SFS nanostructure
Vadim Tumanov and Yurii N. Proshin*, *Theoretical Physics Department, Kazan Federal University, Russia*

SC27 Superconducting characters under pressure in heavy fermion compounds $Celr(In_{1-x}Cd_x)_5$ studied by In-NQR
Mitsuharu Yashima, *Engineering Science, Osaka University, Japan*

SD: Topological insulators II

July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Jun Sung Kim (POSTECH, Korea)

SD01 Giant and twofold oscillations of magnetoresistance in topological insulators Sb_2Te_3 and Bi_2Te_3 single crystals
Zengji Yue, Xiaolin Wang* and Shixue Dou; *Spintronic and Electronic Materials Group, Institute for Superconducting & Electronic Materials, University of Wollongong NSW 2522, Australia*

SD02 (Upgraded to oral) Engineering and manipulating topological qubits in 1D quantum wires
Panagiotis Kotetes¹, Alexander Shnirman² and Gerd Schon¹, *Institut für Theoretische Festkörperphysik, Karlsruhe Institute of Technology, Germany; ²Institut für Theorie der Kondensierten Materie, Karlsruhe Institute of Technology, Germany*

SD03 Angle dependence of the Landau level spectrum in twisted bilayer graphene
Min-young Choi, Young-hwan Hyun and Yoonbai Kim*, *Department of Physics, Sungkyunkwan University, Korea*

SD04 Surface band structure study of Bismuth-based ternary topological insulators
Madhab Neupane¹, S. Y. Xu¹, C. Liu¹, L. A. Wray², N. Alidoust¹, A. Fedorov³, Y. S. Hor⁴, T. R. Chang⁵, H. T. Jeng⁶, H. Lin⁷, B. Bansil⁷, R. J. Cava⁴ and M. Z. Hasan¹, ¹Physics, Princeton University, USA; ²Physics, Princeton University & ALS, Berkeley, USA; ³Physics, ALS, Berkeley, USA; ⁴Chemistry, Princeton University, USA; ⁵Physics, National Tsing Hua University, China; ⁶Physics, National Tsing Hua University & Institute of Physics, Academia Sinica, China; ⁷Physics, Northeastern University, USA

SD05 Topological aspects and transport properties of edge states in the multi-band superconductor Sr_2RuO_4
Yoshiki Imai^{1*}, Katsunori Wakabayashi² and Manfred Sigrist³, ¹Department of Physics, Saitama University, Japan; ²International Center for Materials Nanoarchitectonics, National Institute for Materials Science, Japan; ³Theoretische Physik, Eidgenössische Technische Hochschule Zurich, Switzerland

SD06 Influence of geometry on the edge states of Bi Nanoribbons
Hyun-jung Kim¹, Gustav Bihlmayer², Stefan Blügel² and Jun-hyung Cho^{1*}, ¹Department of Physics and Research Institute for Natural Sciences, Hanyang University, Korea; ²Peter Grünberg Institut and Institute for Advanced Simulation, Forschungszentrum Juelich and JARA, Germany

SD07 Magnetotransport measurements in pulsed magnetic fields: a case for Fermiology studies in superconductors and topological insulators
Frederik Wolff-fabris^{1*}, Jun Sung Kim², Erik Kampert¹, Joonbum Park², Man Jim Eom², Sergei Zherlitsyn¹, Thomas Herrmannsdörfer¹ and Jochen Wosnitza¹, ¹Dresden High Magnetic Field Laboratory (HLD), HZDR, Germany; ²Department of Physics, Pohang University of Science and Technology, Korea

SD08 (Moved to other session) First-principles study of spin texture in the multilayer graphene on Ni(111)
Fumiaki Ishii^{1*}, Hiroki Kotaka², Keisuke Sawada³ and Mineo Saito¹, ¹Faculty of Mathematics and Physics, Kanazawa University, Japan; ²Graduate School of Natural Science and Technology, Kanazawa University, Japan; ³Graduate School of Natural Science and Technology, Kanazawa University, Japan

SD09 A full quantum study on gapless modes and Axion electrodynamics in topological insulator heterostructure systems
Ken Shiozaki^{1*}, Takahiro Fukui² and Satoshi Fujimoto¹, ¹Department of Physics, Kyoto University, Japan; ²Department of Physics, Ibaraki University, Japan

POSTER PRESENTATION**July 13 (Fri)**

SD10 Magnetic properties of rare earth doped Bi_2Te_3
Nahyun Jo, Youngha Choi, Kyujoon Lee and Myung-hwa Jung*, *Physics, Sogang University, Korea*

SD11 Iron doping effect in topological insulator: Bi_2Te_3
Nahyun Jo¹, Youngha Choi¹, Kyujoon Lee¹, Jungwon Jang², Jinhee Kim², Akio Kimura³ and Myung-hwa Jung^{1*}, ¹Physics, Sogang University, Korea; ²Korea Research of Standards and Science, Korea; ³Physics, Hiroshima University, Japan

SD12 Magneto transport properties of topological insulator nanoribbons of Bi_2Te_3
Hong-seok Kim¹, Hosun Shin², Eun-kyoung Jeon³, Kung-won Rhee¹, Ju-jin Kim⁴, Jeong-o Lee³, Jaeyong Song² and Yong-joo Doh^{1*}, ¹Dept. of Display and Semiconductor Physics, Korea University Sejong Campus, Korea; ²Korea Research Institute of Standards and Science, Korea; ³Korea Research Institute of Chemical Technology, Korea; ⁴Dept. of Physics, Chonbuk National University, Korea

SD13 Structural investigations of the topological insulators $Bi_2Se_{3-x}Te_x$
Geetha Balakrishnan^{1*}, Ravi Singh¹, Devashibhai Adroja², Kevin Knight² and Matthias Gutmann², ¹Department of Physics, University of Warwick, United Kingdom; ²ISIS Facility, Rutherford Appleton Laboratory, United Kingdom

SD14 Josephson effects in Bi_2Se_3 topological insulator nanoribbons
Hyunho Noh¹, Lee-seul Park², Eun-kyoung Jeon³, Hong-seok Kim⁴, Jeong-o Lee³, Jin Seok Lee², Jinhee Kim¹ and Yong-joo Doh^{4*}, ¹Korea Research Institute of Standards and Science, Korea; ²Dept. of Chemistry, Sookmyung Women's University, Korea; ³Korea Research Institute of Chemical Technology, Korea; ⁴Dept. of Display and Semiconductor Physics, Korea University Sejong Campus, Korea

SD15 Electronic structure and transport properties of pt based heusler compounds with C1b structure for topological quantum phenomena
Siham Ouardi¹, Gerhard H. Fecher¹, Shekhar Chandra², Gloskovskii Andrei³ and Felser Claudia¹, ¹Johannes Gutenberg University and Max Planck Institute for Chemical Physics of Solids, Dresden, Germany; ²Max Planck Institute for Chemical Physics of Solids, Dresden, Germany; ³Institute of Inorganic and Analytical Chemistry, Johannes Gutenberg - University, Mainz, Germany

SD16 Gapless interface states in topological insulator/semiconductor heterostructures
Hugo Aramburu and Carmen Muñoz*, *ICMM- Consejo Superior de Investigaciones Científicas, Spain*

SD17 Thermoelectric transport in topological insulators
Oleg Tretiakov*, *Physics and Astronomy, Texas A&M University, USA*

SD18 Topological phase in a one-dimensional interacting fermion system
Huaiming Guo, *Department of physics, Beihang University, China*

SD19 (Upgraded to oral) Robustness of 1D topological superconductors with Majorana edge states against lattice modulation
Masaki Tezuka* and Norio Kawakami, *Department of Physics, Kyoto University, Kitashirakawa, Sakyo-ku, Kyoto 606-8502, Japan*

SE: Heavy fermions IV

July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Han-Jin Noh (Chonnam National University, Korea)

SE01 Temperature-pressure phase diagram of quadrupolar order in $PrTr_2Al_{20}$ ($Tr=Ti, V$)
Toshiki Tanaka¹, Kazuyuki Matsubayashi^{2*}, Akihiko Hisada², Akito Sakai², Satoru Nakatsuji², Yoshiya Uwatoko² and Yasunori Kubo³, ¹Graduate School, Nihon Univ, Japan; ²Institute for Solid State Physics, The University of Tokyo, Japan; ³College of Humanities and Sciences, Nihon Univ, Japan

POSTER PRESENTATION**July 13 (Fri)**

- SE02 Soft point contact spectroscopy in the antiferromagnet Ce₂RhIn₈**
 Eunsung Park¹, Xin Lu², Chung Jae Won³, Nam Jung Hur³, Eric D. Bauer², Joe D. Thompson² and Tuson Park^{1*},
¹Department of Physics, Sungkyunkwan University, Korea; ²Condensed Matter & Magnet Science Group, Los Alamos National Laboratory, USA; ³Department of Physics, Inha University, Korea
- SE03 Evidence of a spin gap above the magnetic ordering temperature and crystal field excitations in CeOs₂Al₁₀**
 D T Adroja^{1*}, P P Deen², A D Hillier¹, Y Muro³, J Kajino⁴, T Takabatake⁴, A M Strydom⁵, P Peratheepan⁵, F Demmel¹, J R Stewart¹ and J Taylor¹, ¹ISIS Facility, Rutherford Appleton Laboratory, Chilton, OX11 0QX, United Kingdom; ²European Spallation Source, St Algatan 4, Box 176 Lund 221 00, Sweden; ³Liberal Arts and Sciences, Toyama Prefectural University, Kurokawa 5180, Imizu 939-0398, Japan; ⁴Department of Quantum matter, ADSM, and IAMR, Hiroshima University, Higashi-Hiroshima, 739-8530, Japan; ⁵Physics Department, University of Johannesburg, PO Box 524, Auckland Park 2006, South Africa
- SE04 Role of quantum fluctuations in forming heavy-fermions for Ca_{2-x}Sr_xRuO₄**
 Naoya Arakawa and Masao Ogata, Department of Physics, The University of Tokyo, Japan
- SE05 Study of long range magnetic ordering and spin gap formation in Ce(Ru1-xFex)2Al10 through muSR and neutron scattering measurements**
 D T Adroja^{1*}, A D Hillier¹, Y Muro², J Kajino³, T Takabatake³, P Peratheepan⁴, A M Strydom⁴, P P Deen⁵, J R Stewart¹, J Taylor¹, F Demmel¹ and M Adams¹, ¹ISIS Facility, Rutherford Appleton Laboratory, UK; ²Liberal Arts and Sciences, Toyama Prefectural University, Kurokawa 5180, Japan; ³Department of Quantum matter, ADSM, and IAMR, Hiroshima University, Higashi-Hiroshima, 739-8530, Japan; ⁴Physics Department, University of Johannesburg, South Africa; ⁵European Spallation Source, Sweden
- SE06 Specific heat of structure-disordered heavy-fermion Ce_xY_{80-x}Mn₂₀ alloys**
 Yusuke Amakai^{1*}, Shinya Tanaka¹, Yasuhiro Shiojiri¹, Naoki Momono¹, Hideaki Takano¹, Shigeyuki Murayama¹, Yoshihisa Obi² and Koki Takanashi², ¹Graduate School of Engineering, Muroran Institute of Technology, Japan; ²Institute for Material Research, Tohoku University, Japan
- SE07 Synchrotron X-ray diffraction study on crystal structure of URu₂Si₂**
 Chihiro Tabata^{1*}, Reiji Kumai², Kensuke Kobayashi², Hironori Nakao², Yoichi Murakami², Makoto Yokoyama³, Hiroyuki Hidaka¹, Tatsuya Yanagisawa¹ and Hiroshi Amitsuka¹, ¹Graduate School of Science, Hokkaido University, Japan; ²CMRC and PF, Institute of Materials Structure Science, High Energy Accelerator Research Organization, Japan; ³Faculty of Science, Ibaraki University, Japan
- SE08 Spin-density wave order in the 2D heavy fermion system CePt₂In₃**
 Martin Mansson^{1*}, Jun Sugiyama², Yasmine Sassa¹, Bastian M. Wojek³, Thomasz Durakiewicz⁴, Krinoslav Prsa¹, Olof Gotberg³, Calin Rusu⁵, Daniel Andreica⁵, Stephane Pons⁶, Marco Grioni⁶, Oscar Tjernberg³ and Eric D. Bauer⁴, ¹Lab. for Solid State Physics, ETH Zurich, Switzerland; ²Toyota Central Research and Development Labs. Inc., Japan; ³Materials Physics, Royal Institute of Technology, KTH Stockholm, Sweden; ⁴Los Alamos National Laboratory, USA; ⁵Faculty of Physics, Babes-Bolyai University, Romania; ⁶Institute of Condensed Matter Physics, EPFL Lausanne, Switzerland
- SE09 Metal-nonmetal transition in Cr partial substituted Ni_{0.96}S**
 Masanori Matoba*, Yoichi Kamihara and Shuichiro Anzai, Center for Applied Physics and Physico-Informatics, Keio University, Japan
- SE10 A study of ni-substitution and pressure effects on the heavy-fermion Superconductor CeCu₂Si₂**
 Yoichi Ikeda*, Yuzo Ito, Shingo Araki and Tatsuo C Kobayashi, Graduate School of Natural Science and Technology, Okayama University, Japan
- SE11 Electrical resistivity measurement under pressure in the heavy fermion antiferromagnetic compound Ce₂PtGa₁₂**
 Ryo Sasaki¹, Kazuyuki Matsubayashi¹, Takuwa Shiraishi², Tetsuro Yamashita², Shigeo Ohara² and Yoshiya Uwatoko¹, ¹Institute for Solid State Physics, the University of Tokyo, Kashiwa, Chiba 277-8581, Japan; ²Department of Engineering Physics, Electronics and Mechanics, Graduate School of Engineering, Nagoya Institute of Technology, Nagoya 466-8555, Japan

POSTER PRESENTATION**July 13 (Fri)**

- SE12 Anisotropy of URhGe**
 Jack M Barraclough^{1*}, Edward A Yelland¹ and Andrew D Huxley², ¹School of Physics and Astronomy, University of St Andrews and Scottish Universities Physics Alliance (SUPA), United Kingdom; ²School of Physics, University of Edinburgh and SUPA, United Kingdom
- SE13 Study of spin wave and spin gap in single crystals of CeRu₂Al₁₀ using inelastic neutron scattering measurements**
 D T Adroja^{1*}, E A Goremychkin¹, A D Hillier¹, Y Muro², J Kajino³ and T Takabatake³, ¹ISIS Facility, Rutherford Appleton Laboratory, Chilton, OX11 0QX, United Kingdom; ²Liberal Arts and Sciences, Toyama Prefectural University, Kurokawa 5180, Imizu 939-0398, Japan; ³Department of Quantum matter, ADSM, and IAMR, Hiroshima University, Higashi-Hiroshima, 739-8530, Japan
- SE14 Universal behavior in the nonlinear magnetic response of strongly correlated metals**
 B S Shivaram¹, D G Hinks², B Nartowt³ and Pradeep Kumar³, ¹Department of Physics, University of Virginia, USA; ²Materials Science Division, Argonne National Labs, USA; ³Department of Physics, University of Florida, USA
- SE15 X-ray absorption studies of the Ce₂Rh_{1-x}Ir_xIn₈ intermetallic compounds**
 Cris Adriano¹, Nilmar Silva Camilo², Leandro F Bufaical³, Leticia Medonca Ferreira⁴, Eduardo N Hering⁵, Pascoal G. Pagliuso¹ and Raimundo Lora-Serrano^{2*}, ¹Instituto de Física 'Gleb Wataghin' UNICAMP, CP 6165, 13083-970 Campinas, SP, Brazil; ²Instituto de Física, Universidade Federal de Uberlândia, 38400-902 Uberlândia-MG, Brazil; ³Instituto de Física, Universidade Federal de Goiás, Goiania-GO, 74001-970, Brazil; ⁴Instituto de Física e Matemática, Universidade Federal de Pelotas (UFPel), CP 354, 96010-900 Pelotas, Brazil; ⁵Centro Brasileiro de Pesquisas Físicas, Rua Dr. Xavier Sigaud 150, 22290-180 Rio de Janeiro, RJ, Brazil
- SE16 Polarized neutron diffraction study on the magnetic ordering in UMn₂Al₂₀**
 Przemyslaw Swatek^{1*}, Piotr Wisniewski¹, Arsen Gukasov² and Dariusz Kaczorowski¹, ¹Institute for Low Temperatures and Structure Research, Polish Academy of Sciences, Wrocław, Poland; ²Laboratoire Leon Brillouin, CEA-CNRS, CE-Saclay, 91191 Gif sur Yvette, France
- SE17 Antiferromagnetic ordering in single-crystalline Ce₂IrSi₃**
 Maria Szlawska* and Dariusz Kaczorowski, Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław, Poland
- SE18 Berezinskii-kosterlitz-thouless transition in heavy fermion superlattices**
 Jian-huang She* and Alexander V Balatsky, T-4, Los Alamos National Lab, USA
- SE19 (Withdrawn) Basic properties of the intermetallics APd₃Al₂ (An=Ce, Th, U, Np, Pu, Am)**
 Jean-christophe Griveau*, Krzysztof Gofryk, Eric Colineau, Thomasz Klimczuk and Jean Rebizant, ITU-JRC-EC, Germany
- SE20 Study of vibron quasibound state in CeAg_{1-x}Cu_xAl₃, 0<x<1**
 Cesar De La Fuente^{1*}, Agustin Del Moral¹, Devashibhai T. Adroja² and Jon Taylor², ¹Fisica de la Materia Condensada, University of Zaragoza & ICMA(CISC), 50071, Zaragoza, Spain; ²ISIS Facility, Rutherford Appleton Laboratory, Chilton, Didcot, Oxon OX11 0QX, United Kingdom
- SE21 Magnetic properties of cubic GdTi₂Al₂₀ single crystal**
 Ramesh Kumar K, Ruta N Kulkarni, Sudesh Kumar Dhar and Thamizhavel A*, Department of Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research, Mumbai 400005, India
- SE22 Investigation of the heavy fermion Ce₃Ir₄Sn₁₃ by electrical resistivity under pressure**
 Jackeline Collave Garcia¹, Scheilla Maria Ramos^{2*}, Eduardo Bittar³, Pascoal Pagliuso³, Eduardo Hering², Magda Fontes², Hortencio Alves Borges¹ and Elisa Baggio-saitovitch², ¹Pontifícia Universidade Católica do Rio de Janeiro - PUC-Rio, Brazil; ²Centro Brasileiro de Pesquisas Físicas, Brazil; ³Universidade Estadual de Campinas, Brazil

POSTER PRESENTATION**July 13 (Fri)**

- SE23** Electronic structure studies of UPt_3 using soft x-ray angle-resolved photoemission spectroscopy and band calculation
 Hiroshi Yamagami¹, Ikuto Kawasaki², Shin-ichi Fujimori², Akira Yasui², Tetsuo Okane², Yukiharu Takeda², Yuji Saitoh², Yoshinori Haga³, Etsuji Yamamoto³ and Yoshichika Onuki⁴, ¹Department of Physics, Kyoto Sangyo University, Japan; ²Condensed Matter Science Division, Japan Atomic Energy Agency, Japan; ³Advanced Science Research Center, Japan Atomic Energy Agency, Japan; ⁴Graduate School of Science, Osaka University, Japan

SF: Non-fermi liquids and quantum phase transitions II

July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Jeongsoo Kang (The Catholic University of Korea, Korea)

- SF01** (Withdrawn) Field-dependent instability of the candidate quantum spin liquid in $\text{EtMe}_3\text{Sb}[\text{Pd}(\text{dmit})_2]_2$ as revealed by NMR
 Georgios Koutroulakis^{1*}, Tong Zhou², Stuart E. Brown², Joe D. Thompson¹ and Reizo Kato³; ¹Los Alamos National Laboratory, USA; ²UCLA, USA; ³RIKEN, Japan
- SF02** Magnetic states in quasi-2-D iridium oxides with large spin-orbit coupling
 Masaaki Isobe^{1*}, Hirotaka Okabe¹ and Jun Akimitsu², ¹Strongly Correlated Materials Group, National Institute for Materials Science (NIMS), Japan; ²Department of Physics and Mathematics, Aoyama Gakuin University, Japan
- SF03** Quantum critical end point in ucoal proved by NMR measurements
 Hisashi Kotegawa¹, Hiroki Nohara¹, Hideki Tou¹, Tatsuma D. Matsuda², Etsuji Yamamoto², Yoshinori Haga², Zachary Fisk³, Yoshichika Onuki⁴, Valentin Taufour⁵, Dai Aoki⁵, Georg Knebel⁵ and Jacques Flouquet⁵, ¹Kobe University, Japan; ²JAEA, Japan; ³University of California, USA; ⁴Osaka University, Japan; ⁵CEA-Grenoble, France
- SF04** The metal-insulator transition in ferromagnetic chromium hollandite
 Yutaka Ueda^{1*}, Masahiko Isobe¹, Tooru Yamauchi¹, Akiko Nakao², Hironori Nakao², Yukinori Ohta³ and Takehisa Konishi³, ¹Institute for Solid State Physics, University of Tokyo, Japan; ²Condensed Matter Research Center and Photon Factory, IMSS, KEK, Japan; ³Chiba University, Japan
- SF05** Composition and transverse field-tuned quantum criticality in NbFe_2
 Sven Friedemann¹, Max Hirschberger¹, Yang Zou¹, William J Duncan², Andreas Neubauer³, Thomas Bauer⁴, Louis Pedreno⁵, Manuel Brando⁵, Christian Pfleiderer³ and F Malte Grosche¹, ¹Cavendish Laboratory, University of Cambridge, United Kingdom; ²Department of Physics, Royal Holloway, University of London, United Kingdom; ³Physik Department E21, TU Munchen, Germany; ⁴Max Planck Institute for Chemical Physics, Dresden, Germany; ⁵Max Planck Institute for Chemical Physics of Solids, Germany
- SF06** (Withdrawn) Tuning ferromagnetism in $\text{Ce}_{1-x}\text{LaxAuGe}$: A specific heat and magnetic susceptibility study
 Buyisiwe M. Sondezi-mhlungu and Andre M. Strydom, Physics, University of Johannesburg, South Africa
- SF07** Anomalous hybridization effects in the cubic quadrupole systems PrTrAl_{20} ($\text{Tr} = \text{Ti}, \text{V}$)
 Akito Sakai^{*}, Eoin O'farrell and Satoru Nakatsuji, ISSP, University of Tokyo, Japan
- SF08** Non-fermi-liquid properties of the non-centrosymmetric heavy-fermion compound CePtSi : a magnetic field study
 Andre Strydom, Physics, University of Johannesburg, South Africa
- SF09** Vibron quasi-bound state in the non-centrosymmetric tetragonal heavy-fermion compound CeCuAl_3 , D T Adroja^{1*}, A Del Moral², C De La Fuente², A Fraile¹, E A Goremykin¹, J Taylor¹, A Hillier¹ and F Fernandez-alonso¹, ¹ISIS Facility, Rutherford Appleton Laboratory, Chilton, OX11 0QX, United Kingdom; ²Laboratorio de Magnetismo, Depto Fisica Materia Condensada, Universidad de Zaragoza & ICMA, Spain

POSTER PRESENTATION**July 13 (Fri)**

- SF10** Pressure-induced quantum criticality in the heavy-fermion compound $\text{CeCoGe}_{2.2}\text{Si}_{0.8}$
 J. Larrea J.^{1*}, K.-a. Lorenzer², M. Muller¹, S. Paschen¹, J. Teysser³ and H. Ronnow⁴, ¹Institute of Solid State Physics, Vienna University of Technology, Wiedner Hauptstr. 8 - 10, 1040 Wien, Austria; ²Institute of Solid State Physics, Vienna University of Technology, Austria; ³de Physique de la Matiere Condensee, Universite de Geneve, Quai Ernest-Ansermet 24, 1211 Geneve, Switzerland; ⁴Laboratory for Quantum Magnetism, Ecole Polytechnique Federale de Lausanne, 1015 Lausanne, Switzerland
- SF11** (Upgraded to oral) Anomalous thermoelectric effects in the heavy fermion superconductor Ce_2PdIn_8
 Marcin Matusiak, Daniel Gnida and Dariusz Kaczorowski*, Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Poland
- SF12** Unusual normal-state magnetotransport in the heavy-fermion superconductor Ce_2PdIn_8
 Daniel Gnida*, Marcin Matusiak and Dariusz Kaczorowski, Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Poland
- SF13** Specific heat and thermal conductivity studies of $\text{UCu}_{4+x}\text{Al}_{8-x}$ compounds
 Farzana Nasreen¹, Milton Torikachvili², Karunakar Kothapalli³, Yoshimitsu Kohama⁴, Vivien Zapf⁵ and Heinrich Nakotte^{6*}, ¹Department of Physics & Astronomy, University of Nevada, Las Vegas, NV 89154, USA; ²Department of Physics, San Diego State University, San Diego CA 92182, USA; ³Department of Material Science and Engineering, University of Maryland, College Park, MD, 20744, USA; ⁴The Institute for Solid State Physics, The University of Tokyo, Japan; ⁵MPA-National High Magnetic Field Laboratory, Los Alamos National Laboratory, Los Alamos, New Mexico 87545, USA; ⁶Department of Physics, New Mexico State University, Las Cruces, NM 88003, USA
- SF14** Dynamical cluster approximation results of the two-orbital Hubbard model
 Hunpyo Lee¹, Yu-zhong Zhang², Harald Jeschke¹ and Roser Valentí^{1*}, ¹Institute for Theoretical Physics, University of Frankfurt, Germany; ²Physics, Tongji University, China
- SF15** Renormalized parameters and convergence of energy scales on the approach to local quantum critical points
 D. J. G. Crow^{1*}, Yunori Nishikawa² and Alex Hewson¹, ¹Department of Mathematics, Imperial College London, United Kingdom; ²Graduate School of Science, Osaka City University, Japan

SG: New developments

July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Jai Seok Ahn (Pusan National University, Korea)

- SG01** NMR study of magnetic properties of $\text{Eu}_{1-x}\text{Sr}_x\text{MnO}_3$
 Kenji Shimizu¹, Masanori Yamaguchi¹, Shujuan Yuan² and Shixun Cao², ¹Physics, Faculty of Science, University of Toyama, Japan; ²Physics, Shanghai University, China
- SG02** NMR study of successive magnetic transitions in A-site ordered perovskite $\text{LaMn}_3\text{Cr}_4\text{O}_{12}$
 Y. Kawasaki¹, S. Takase¹, Y. Kishimoto¹, T. Ohno¹, I. Yamada², K. Shiro², R. Takahashi², K. Ohgushi³, N. Nishiyama⁴, T. Inoue⁴ and T. Irifune⁴, ¹Institute of Technology and Science, The University of Tokushima, Japan; ²Graduate School of Science and Engineering, Ehime University, Japan; ³Institute for Solid State Physics, University of Tokyo, Japan; ⁴Geodynamics Research Center, Ehime University, Japan
- SG03** Magnetic properties of single crystalline $\text{U}_2\text{Fe}_3\text{Ge}$
 Margarida Henriques^{1*}, Denis Gorbunov², Ladislav Havela³, Alexander Andreev² and Antonio Goncalves¹, ¹UCQR, Technological and Nuclear Institute, Portugal; ²Institute of Physics, Academy of Sciences of the Czech Republic, Czech Republic; ³Department of Condensed Matter Physics, Faculty of Mathematics and Physics, Charles University, Czech Republic

POSTER PRESENTATION**July 13 (Fri)****SG04 Magnetic properties of a 5d transition metal oxide AO₃O₄ (A = K, Rb, Cs)**

Junichi Yamaura, Kenya Ohgushi and Zenji Hiroi, *Institute for Solid State Physics, University of Tokyo, Japan*

SG05 Enhancement of curie temperature due to the coupling between fe itinerant electrons and Dy localized electrons in DyFe₂Zn₂₀

Yosikazu Isikawa¹, Toshio Mizushima¹, Souta Miyamoto¹, Keigou Kumagai¹, Mako Nakahara¹, Hiroaki Okuyama¹, Takashi Tayama¹, Tomohiko Kuwai¹ and Pascal Lejay², ¹*Graduate School of Science and Engineering, University of Toyama, Japan;* ²*Institute Neel, MCMF, CNRS, France*

SG06 (Moved to other session) Anomalous increase of TC in UGa₂ under pressure

Ladislav Havela¹, A. Kolomiets², J. Prchal¹ and A. V. Andreev³, ¹*Department of Condensed Matter Physics, Charles University, Czech Republic;* ²*Department of Physics, Lviv Polytechnic National University, Ukraine;* ³*Institute of Physics, Academy of Sciences of the Czech Republic, Czech Republic*

SG07 Phase transition between paramagnetic and spin polarized states in MnSi

Sergey Demishev*, Vladimir Glushkov, Inna Lobanova, Vsevolod Ivanov, Nickolay Sluchanko and Alexey Semeno; *Low Temperatures and Cryogenic Engineering, General Physics Institute of RAS, Russia*

SG08 ESR in mnsi: Heisenberg localized magnetic moments and spin polarons

Sergey Demishev*, Alexey Semeno, Vladimir Glushkov, Nickolay Sluchanko and Nickolay Samarin, *Low Temperatures and Cryogenic Engineering, General Physics Institute of RAS, Russia*

SG09 Magnetic susceptibility measurements at high pressures down to T=0.5 K with SQUID magnetometer

Yoshiaki Sato^{1*}, Shun Makiyama¹, Yasutaka Sakamoto¹, Tadahiko Hasuo¹, Yuji Inagaki¹, Tetsuya Fujiwara² and Tatsuya Kawae¹, ¹*Department of Applied Quantum Physics, Kyushu University, Japan;* ²*Graduate School of Science and Engineering, Yamaguchi University, Japan*

SG10 Extinction of photo-luminescence of Mn-doped ZnS nanocolloids in weak magnetic field

Hong-van Bui¹, Van-ben Pham¹, Nam-nhat Hoang^{2*} and Van-chau Dinh², ¹*Faculty of Physics, Vietnam National University, University of Natural Sciences, Viet Nam;* ²*Faculty of Technical Physics and Nanotechnology, Vietnam National University, University of Engineering and Technology, Viet Nam*

SG11 Electronic structure of A-site ordered perovskite CaCu₃Ti₄O₁₂ studied by angle-resolved photoemission spectroscopy

H. J. Im^{1*}, M. Tsunekawa², T. Sakurada¹, K. Kawata¹, T. Watanabe¹, K. Takegahara¹, H. Miyazaki³ and S. Kimura⁴, ¹*Department of Advanced Physics, Hirosaki University, Japan;* ²*Faculty of Education, Shiga University, Japan;* ³*Department of Environmental and Materials Engineering, Nagoya Institute of Technology, Japan;* ⁴*UVSOR Facility, Institute for Molecular Science, Japan*

SG12 Evidence of rattling transition in caged compounds LaRu₂Zn₂₀ and LaIr₂Zn₂₀: La-NMR studies

Hideki Tou^{1*}, Kenji Asaki¹, Hisahi Kotegawa¹, Takahiro Onimaru², Keisuke T. Matsumoto², Yukihiko F Inoue² and Toshiro Takabatake², ¹*Department of Physics, Graduate School of Science, Kobe University, Japan;* ²*ADSM, Hiroshima University, Japan*

SG13 Unconventional magnetic ordering in spin-orbit mott insulator with honeycomb lattice

Soham Manni^{1*}, Yogesh Singh² and Philipp Gegenwart¹, ¹*I. Physikalisches Institut, Georg-August-Universitaet Goettingen, Germany;* ²*IISER Mohali, India*

SG14 YCr₆Ge₆: A kagome metal?

Yui Ishii^{1*}, Yoshihiko Okamoto¹, Junichi Yamaura¹, Hisatomo Harima² and Zenji Hiroi¹, ¹*ISSP, Univ. Tokyo, Japan;* ²*Dept. of Physics, Kobe Univ., Japan*

POSTER PRESENTATION**July 13 (Fri)****SG15 Raman scattering spectra of PrRu₂Zn₂₀**

Norio Ogita^{1*}, Takumi Hasegawa¹, Masayuki Udagawa¹, Keisuke Matsumoto², Takahiro Onimaru² and Toshiro Takabatake², ¹*Graduate School of Arts and Sciences, Hiroshima Univ., Japan;* ²*Graduate School of Advanced Sciences of Matter, Hiroshima Univ., Japan*

SG16 Superconducting state in KSn₂ with a MgZn₂-type (C14) Laves phase structure

Shota Miyazaki, Kenji Kawashima, Tsukasa Ipponjima, Michinori Fukuma and Jun Akimitsu, *Physics and Mathematics, Aoyama Gakuin University, Japan*

SG17 Layered nanosized structures on basis of diluted magnetic semiconductors and heusler alloys

Evgeny Sergeevich Demidov*, Ekaterina Pavlova, Aleksandr Bobrov, Vitaliy Podolskii, Valeriy Lesnikov, Sergey Gusev and Anton Tronov, *Solid State Electronics Chair, Nizhny Novgorod State University, Russia*

SG18 Metal-insulator and spin-state transition in polycrystalline (Pr_{1-y}REy)_{1-x}CaxCoO₃ (RE=rare earth elements) in magnetic fields

Tomoyuki Naito^{1*}, Hiroko Sasaki¹, Motoharu Kato¹, Satoru Ogawa¹, Hiroyuki Fujishiro¹, Terukazu Nishizaki² and Norio Kobayashi², ¹*Iwate University, Japan;* ²*Institute for Materials Research, Tohoku University, Japan*

SG19 Magnetic field-induced lattice effects in a quasi-2D organic conductor close to the Mott metal-insulator transition

Mariano De Souza^{1*}, Andreas Bruel², Christian Strack², Dieter Schweitzer³ and Michael Lang², ¹*Physics, Universidade Estadual Paulista - Unesp (Sao Paulo State University), Brazil;* ²*Physics, Goethe-Universitat Frankfurt, Germany;* ³*Physics, Stuttgart Universitat, Germany*

SG20 Metallic transition of the colossal magnetoresistance material Fe_xMn_{1-x}S (x=0.18) under high pressure

Yoshimi Mita^{1*}, Tomoko Kagayama², G. M. Abramova³, G. A. Petrakovskii³ and V. V. Sokolov⁴, ¹*Materials Physics, Engineering Science, Osaka University, Japan;* ²*Center of Quantum Science and Technology under Extreme Conditions, Osaka University, Japan;* ³*L.V.Kirensky Institute of Physics, Russia;* ⁴*A.V.Nikolaev Institute of Inorganic Chemistry, Russia*

SG21 Optimal design of IPMSM having double barrier for minimizing cogging torque and torque ripple

Hyung Uk Nam¹, Hyun Rok Cha¹, Kwang Heon Kim², Dae Young Lyu¹ and Tae Won Jeong¹, ¹*Automotive R&D, Korea Institute of Industrial Technology, Korea;* ²*Department of Electrical Engineering, University of the Chonnam, Korea*

SG22 Implementation of first-principle calculation in combination with a dynamical cluster approximation

Hunpyo Lee¹, Kateryna Foyevtsova¹, Johannes Ferber¹, Markus Aichhorn², Harald Jeschke¹ and Roser Valenti^{1*}, ¹*Institute for Theoretical Physics, University of Frankfurt, Germany;* ²*Institute for Theoretical and computational Physics, TU Graz, Austria*

SH: Domain and domain walls**July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)**

Chairperson: Mathias Klau (Johannes Gutenberg Universitat Mainz, Germany)

SH01 Oscillatory transformative domain wall inner structure of depinning domain wall around notched ferromagnetic wire

Dede Djuhana^{1*}, Bambang Soejijono¹, Hong-guang Piao², Suhk Kun Oh³, Seong-cho Yu³ and Dong-hyun Kim³, ¹*Physics, Department of Physics, university of Indonesia, Indonesia;* ²*Materials Science and Engineering, Department of Materials Science and Engineering, Tsinghua University, Beijing, China;* ³*Physics, Chungbuk National University, Cheongju 361-763, Korea*

POSTER PRESENTATION**July 13 (Fri)****SH02 Unidirectional thermal effects in current-induced domain wall motion**

Jacob Torrejon¹, Gregory Malinowski¹, Javier Curiale¹, Andre Thiaville^{1*}, Daniel Lacour², Francois Montaigne² and Michel Hehn², ¹Laboratoire de Physique des Solides, Universite Paris-Sud, CNRS, 91405 Orsay, France; ²Institut Jean Lamour, Universite Nancy I, 54506 Vandoeuvre-les-Nancy, France

SH03 Effect of the oersted field on current-induced domain wall motion and domain wall chirality in multilayer nanostripes

Stefania Pizzini^{1*}, Zahid Ishaque¹, Jan Vogel¹, Vojtech Uhlir¹, Nicolas Rougemaille¹, Olivier Fruchart¹, Jean-christophe Toussaint¹, Julio Camarero², Julio C. Cezar³ and Fausto Sirotti⁴, ¹Institut Neel, Centre National de la Recherche Scientifique, Grenoble, France; ²Universidad Autonoma de Madrid, Spain; ³European Synchrotron Radiation Facility (ESRF), Grenoble, France; ⁴Synchrotron SOLEIL, Gif sur Yvette, France

SH04 Domain-wall motion in permalloy nanowires with magnetic soft spots

Andreas Vogel^{1*}, Sebastian Wintz², Theo Gerhardt¹, Lars Bocklage¹, Thomas Strache², Mi-young Im³, Peter Fischer³, Juergen Fassbender², Jeffrey Mccord⁴ and Guido Meier¹, ¹Institut fuer Angewandte Physik und Zentrum fuer Mikrostrukturforschung, Universitaet Hamburg, Germany; ²Institut fuer Ionenstrahlphysik und Materialforschung, Helmholtz-Zentrum Dresden-Rossendorf, Germany; ³Center for X-ray Optics, Lawrence Berkeley National Laboratory, USA; ⁴Institut fuer Materialwissenschaften, Christian-Albrechts-Universitaet zu Kiel, Germany

SH05 Direct observation of nearly mass-less domain walls in nanostripes with perpendicular magnetic anisotropy

Stefania Pizzini^{1*}, Jan Vogel¹, Marlio Bonfim², Olivier Boulle³, Emilie Jue³, Nicolas Rougemaille¹, Mihai Miron³, Ales Hrabec¹, Gilles Gaudin³, Julio C. Cezar⁴ and Fausto Sirotti⁵, ¹Institut Neel, Centre National de la Recherche Scientifique, Grenoble, France; ²Departamento de Engenharia Eletrica, Universidade do Parana, Curitiba, Brazil; ³Spintec, CEA/CNRS/UJF/GINP, INAC, Grenoble, France; ⁴European Synchrotron Radiation Facility (ESRF), Grenoble, France; ⁵Synchrotron SOLEIL, Gif-sur-Yvette, France

SH06 Modified phase diagram of domain walls in FeNi/Cu/Co nanostripes

Nicolas Rougemaille^{1*}, Vojtech Uhlir¹, Olivier Fruchart¹, Zahid Ishaque¹, Jan Vogel¹, Stefania Pizzini¹, Zoukaa Kassir-bodon¹, Aurelien Massboeuf², Andrea Locatelli³, Onur Mentes³, Michal Urbanek⁴ and Jean-christophe Toussaint¹, ¹Institut Neel, Centre National de la Recherche Scientifique, Grenoble, France; ²Laboratoire d'Etude des Materiaux par Microscopie Avancee, INAC/CEA, Grenoble, France; ³Sincrotrone ELETTRA, Trieste, Italy; ⁴Institute of Physical Engineering, Brno University of Technology, Brno, Czech Republic

SH07 Effect of current on a threshold width for a dimensional transition of domain wall dynamics in Co/Ni

Kab-jin Kim^{1*}, D. Chiba¹, K. Kobayashi¹, S. Fukami², M. Yamanouchi², H. Ohno² and T. Ono¹, ¹Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan; ²Center for Spintronics Integrated Systems, Tohoku University, 2-1-1 Katahira, Aoba-ku, Sendai 980-8577, Japan

SH08 Simulations of field driven domain wall motion in permalloy nanowires with difference dimension

Chia-chi Chang¹, Chao-hsien Huang², Tian-chiuan Wu³, Jong-ching Wu² and Lance Horng², ¹Department of Physics, National Changhua University of Education, Taiwan; ²Department of Physics, Taiwan SPIN Research Center, National Changhua University of Education, Taiwan; ³Department of Electronic Engineering, National Formosa University, Taiwan

SH09 Voltage control of magnetisation and magnetic domain configurations in magnetostrictive epitaxial Fe_{1-x}Ga_x thin films

Duncan E Parkes¹, Stuart A Cavill², Aidan T Hindmarch³, Peter Wadley¹, Fintan McGee¹, Kevin W Edmonds¹, Richard P Campion¹, Andrew W Rushforth^{1*} and Bryan L Gallagher¹, ¹School of Physics and Astronomy, University of Nottingham, Nottingham NG7 2RD, United Kingdom; ²Beamline I06, Diamond Light Source Chilton, Didcot, Oxfordshire OX11 0DE, United Kingdom; ³Centre for Materials Physics, Durham University, South Road, Durham, DH1 3LE, United Kingdom

POSTER PRESENTATION**July 13 (Fri)****SH10 Restricted oscillation period effect in the domain wall propagation after walker breakdown**

Xiao-ping Ma¹, Zhe Fan¹, Je-ho Shim², Sang-hyuk Lee², Djati Handoko², Hong-guang Piao^{3*} and Dong-hyun Kim², ¹Science of College, Huaihai Institute of Technology, China; ²Department of Physics, Chungbuk National University, Korea; ³Materials Science and Engineering, Tsinghua University, China

SH11 Domain wall motion by thermal gradients in Fe/W(110)

Jonathan Philippe Chico Carpio^{1*}, Anders Bergman¹, Lars Bergqvist² and Olle Eriksson¹, ¹Physics and Astronomy (Materials Theory Division), Uppsala University, Sweden; ²Dept. of Materials Science and Engineering, Royal Institute of Technology (KTH), Sweden

SH12 Transverse domain wall motion in notched ferromagnetic nanowire by spin transfer torque

Arnab Ganguly, Anjan Barman and Saswati Barman*, Condensed Matter Physics and Material Sciences, S. N. Bose National Centre for Basic Sciences, Saltlake, Kolkata, India

SH13 Domain wall configuration and magneto-transport properties in dual spin-valve with

Byong Sun Chun^{1*}, Chanyong Hwang¹, Han-chun Wu², Mohamed Abid³, Su Jung Noh⁴ and Young Keun Kim⁴, ¹Korea Research Institute of Standards and Science, Korea; ²CRANN, School of Physics, Trinity College Dublin, Ireland; ³Ecole Polytechnique Federale de Lausanne, Switzerland; ⁴Department of Materials Science and Engineering, Korea University, Korea

SH14 Dynamics of domain-wall oscillations in magnetic nanorings driven by circularly rotating fields

Youn-seok Choi, Young-sang Yu, Dong-soo Han, Hyunsung Jung, Ki-suk Lee and Sang-koog Kim*, National Creative Research Initiative Center for Spin Dynamics & Spin-Wave Devices & Nanospinics Lab, Research Institute of Adv. Materials, Dep. of Materials Sci. & Eng., Seoul Nat'l Univ., Seoul, Korea

SH15 (Withdrawn) Modeling field-induced transformations of domain walls in magnetic stripes

Andrzej Janutka, Institute of Physics, Wroclaw University of Technology, Poland

SH16 Interaction between propagating spin-waves and domain walls on a ferromagnetic nanowire

June Seo Kim¹, Martin Staerk², Jungbum Yoon³, Chun Yeol You³, Luis Lopez-diaz⁴, Eduardo Martinez⁴ and Mathias Klaeui^{1*}, ¹Institut fuer Physik, Johannes Gutenberg-Universitaet Mainz, Germany; ²Fachbereich Physik, Universitaet Konstanz, Germany; ³Department of Physics, Inha University, Korea; ⁴Department of Physics, Universidad de Salamanca, Spain

SI: Spin waves

July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Kyung-Jin Lee (Korea University, Korea)

SI01 Spin oscillations in a free molecular magnet

Gwang-hee Kim, Physics, Sejong University, Korea

SI02 Effects of nonlinear spin dynamics on spin pumping

Sankha Subhra Mukherjee, Praveen Deorani, Siddharth Rao, Jae Hyun Kwon and Hyunsoo Yang*, ECE, National University of Singapore, Singapore

SI03 Sharp spectral linewidth in spin torque oscillator with perpendicular magnetized Co/Pd free layer

Yuki Kawada*, Hiroshi Naganuma, Mikihiko Oogane and Yasuo Ando, Applied Physics, Tohoku University, Japan

SI04 Clocking schemes for soliton propagation in a ferromagnetically-coupled quantum-dot chain

Kyeong-dong Lee^{1*}, Hyon-seok Song¹, Chun-yeol You² and Sung-chul Shin³, ¹Department of Physics and Center for Nanospinics of Spintronic Materials, KAIST, Korea; ²Department of Physics, Inha University, Korea; ³Department of Physics and Center for Nanospinics of Spintronic Materials, KAIST, and Department of Emerging Materials Science, DGIST, Korea

POSTER PRESENTATION**July 13 (Fri)**

- SI05 Spin wave propagation in single crystal Au(001)/Fe(001)/MgO(001) waveguides**
Yoichi Shiota, Shinji Miwa, Norikaze Mizuuchi, Teruya Shinjo and Yoshishige Suzuki*, *Graduate School of Engineering Science, Osaka University, Japan*
- SI06 Microscopic theory on the spin relaxation in an inhomogeneous spin dynamics**
Nobuyuki Umetsu, Daisuke Miura and Akimasa Sakuma, *Tohoku University, Japan*
- SI07 Ultrafast transfer of spin in a non-collinearly magnetized multilayer**
Koen Kuiper*, Sjors Schellekens and Bert Koopmans, *Eindhoven University of Technology, Netherlands*
- SI08 Investigation of spin wave interference circuit with metallic thin film**
Nana Sato¹, Koji Sekiguchi^{2*} and Yukio Nozaki³, ¹*Department of Physics, Keio University, Japan*; ²*Department of Physics, Keio University, PRESTO, JST, Japan*; ³*Department of Physics, Keio University, CRESTO, JST, Japan*
- SI09 Current-induced magnetization dynamics of synthetic anti-ferromagnetic free layers**
Seo-won Lee¹, Daria Gusakova², Liliana Buda-prejbeanu², Ursula Ebels², Bernard Dieny² and Kyung-jin Lee^{1*}, ¹*Department of Material Science and Engineering, Korea University, Korea*; ²*SPINTEC, UMR CEA/CNRS/UJF & G-INP, INAC, France*
- SI10 (Withdrawn) Magnon excitation studies in strongly correlated electron systems**
Cecilia I. Ventura^{1*}, Marcello Acquareone² and Ivon R. Buitrago³, ¹*Teoria de Solidos, Centro Atomico Bariloche, and Univ. Nac. Rio Negro, Argentina*; ²*IMEM-CNR, Dip. di Fisica, Universita di Parma, Italy*; ³*Teoria de Solidos, Centro Atomico Bariloche, and Inst. Balseiro, Argentina*
- SI11 Magnetoplasmonic hybrid nanoparticles**
Francesco Pineider^{1*}, Giulio Campo², Cesar De Julian Fernandez¹ and Claudio Sangregorio¹, ¹*Department of Chemistry, University of Florence, CNR-ISTM, Italy*; ²*Department of Chemistry, University of Florence, Italy*
- SI12 Inhomogeneous standing spin wave excited by the patterned periodic electrode**
Kohei Kiseki¹, Satoshi Yakata¹ and Takashi Kimura^{2*}, ¹*Kyushu University, Japan*; ²*Kyushu University, Japan*
- SI13 Observation of spin-waves by time-resolved magneto-optic kerr effect microscope**
Sang-jun Yun¹, Jae-chul Lee², Kyung-ho Shin² and Sug-bong Choe^{1*}, ¹*Department of Physics and Astronomy, Seoul National University, Korea*; ²*Spin Device Research Center, Korea Institute of Science and Technology, Korea*
- SI14 Nuclear magnetic resonance study of proton dynamics in ZnO**
Jun Kue Park, Kyu Won Lee and Cheol Eui Lee*, *Department of Physics, Department of Physics and Institute for Nano Science, Korea University, Seoul 136-713, Korea*
- SI15 Micromagnetic study of magnonic band gaps in waveguides with a periodic variation of the saturation magnetization**
Florin Ciubotaru*, Andrii V. Chumak, Bjoern Obry, Alexander A. Serga and Burkard Hillebrands, *Faculty of Physics, University of Technology, Kaiserslautern, Germany*
- SI16 Spin-transfer induced spin waves of a magnetic point contact with a confined domain wall**
Hiroko Arai, Hiroshi Tsukahara and Hiroshi Imamura*, *Advanced industrial science and technology (AIST), Japan*
- SI17 Spin-torque-nano-oscillator using the perpendicular magnetized CoFeB/MgO/CoFeB magnetic tunnel junctions**
Hiroshi Naganuma^{1*}, Nobuhito Inami¹, Yuki Kawada¹, Mikihiko Oogane¹, Yasuo Ando¹, Kotaro Mizunuma², Hideo Sato³, Michihiko Yamanouchi³, Shoji Ikeda⁴ and Hideo Ohno⁴, ¹*Department of Applied Physics, Tohoku University, Japan*; ²*RIEC, Tohoku University, Japan*; ³*CSIS, Tohoku University, Japan*; ⁴*CSIS, RIEC, Tohoku University, Japan*

POSTER PRESENTATION**July 13 (Fri)**

- SI18 Planar approximation for spin-transfer devices with tilted polarizer**
Ya. B. Bazaliy*, *Department of Physics and Astronomy, University of South Carolina, Columbia SC, USA* and *Institute of Magnetism of NASU, Ukraine*
- SJ:** **Modeling**
July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)
Chairperson: Dieter Suess (Technische Universität Wien, Austria)
- SJ01 Fast SpinRAM simulation by GPU**
Kyoaki Oomaru* and Yoshinobu Nakatani, *The University of Electro-Communications, Japan*
- SJ02 Micromagnetic simulations for the spin dynamics and Gilbert damping constants in nano-dot with perpendicular magnetic anisotropy**
Jungbum Yoon¹, Chun-yeol You^{1*} and Myung-hwa Jung², ¹*Department of Physics, Inha University, Korea*; ²*Department of Physics, Sogang University, Korea*
- SJ03 Micromagnetic study on micro-structured ferromagnetic thin film for high frequency device applications**
Keigo Ito, Teppei Takashima, Terumitsu Tanaka* and Kimihide Matsuyamam, *ISEE, Kyushu University, Japan*
- SJ04 Atomistic modelling of magnetization dynamics with spin torque**
Phanwadee Chureemart, Richard F. L. Evans, Irene D'amico and Roy W. Chantrell, *Physics, University of York, United Kingdom*
- SJ05 Highly parallelized micromagnetic simulator using fast multipole method**
Sung-hyun Lee¹, Chun-yeol You¹⁺ and Sung-chul Shin^{3*}, ¹*Department of Physics and Center for Nanospinics of Spintronic Materials, KAIST, Daejeon 305-701, Korea*; ²*Department of Physics, Inha University, Incheon 402-751, Korea*; ³*Department of Physics and Center for Nanospinics of Spintronic Materials, KAIST, Daejeon 305-701, Korea*, *Department of Emerging Material Science, DGIST, Daegu 711-873, Korea*
- SJ06 Effect of calculation conditions on the numerical simulation of magnetic materials with random magnetic anisotropy**
S. J. Lee¹, Suguru Sato¹, Hideto Yanagihara¹, Eiji Kita^{1*} and Chiharu Mitsumata², ¹*Institute of Applied Physics, University of Tsukuba, Japan*; ²*Graduate School of Engineering, Tohoku University, Japan*
- SJ07 Vortex and antivortex formation in magnetic rolled-up nanotubes**
Jehyun Lee¹, Denys Makarov², Robert Streubel², Carlos Cesar Bof Bufon², Celine Vervacke², Dieter Suess³, Josef Fidler³, Oliver G Schmidt² and Sang-koog Kim^{1*}, ¹*National Creative Research Center for Spin Dynamics & Spin-Wave Devices and Nanospinics Lab., Research Institute of Adv. Materials, Dep. of Materials Sci. & Eng., Seoul Nat'l Univ., Korea*; ²*Institute for Integrative Nanosciences, IFW Dresden, Germany*; ³*Institute of Solid State Physics, Vienna University of Technology, Austria*
- SJ08 Magneto resistance study using micro magnetic simulations in permalloy nano ladder**
Venkateswarlu Dasari*, Vineeth Mohanan Parakkat and Anil P. S. Kumar, *Physics, Indian Institute of Science, India*
- SJ09 Soft layer driven switching of microwave-assisted magnetic recording on segmented perpendicular media**
Jing Qiang Goh^{1*}, Zhi-min Yuan², Lei Shen², Tiejun Zhou² and Yuan Ping Feng¹, ¹*Department of Physics, National University of Singapore, Singapore*; ²*Data Storage Institute, Agency for Science, Technology and Research, Singapore*

SK: Spin electronics II

July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)

Chairpersons: A. Thomas (Bielefeld University, Germany)

Byong-Guk Park (KAIST, Korea)

SK01 Top composite free layer non-collinear spin valve for hysteresis-free GMR sensors

Vladimir V. Ustinov*, Michael A. Milyaev, Larisa I. Naumova, Tatiana P. Krinitsina and Vladimir V. Proglyado; Institute of Metal Physics, Ural Branch of Russian Academy of Sciences, Russia

SK02 Strong <111> texture and low hysteresis in MnIr-based top spin valve

Mikhail Milyaev, Larisa Naumova, Vyacheslav Proglyado, Tatiana Krinitsina, Nataliya Bannikova and Vladimir Ustinov, Institute of Metal Physics UB RAS, Russia

SK03 Low temperature crystallization process in Co₂FeSi Heusler alloy thin filmsLuke Fleet¹, M. J. Walsh¹, J. Sagar¹, T. Nakayama² and A. Hirohata^{1*}, ¹The University of York, United Kingdom; ²Nagaoka University of Technology, Japan**SK04 Spin-polarized itinerant electrons in Co₂MnAl and Co₂MnSi studied by magnetic Compton scattering**Soichiro Mizusaki¹, Tomohiro Ohnish¹, Masayoshi Itou², Yoshiharu Sakurai², Tadashi C Ozawa³, Hiroaki Samata⁴, Yoshihiko Noro⁵ and Yujiro Nagata¹, ¹Aoyama Gakuin University, Japan; ²Japan Synchrotron Radiation Research Institute (JASRI/SPRING-8), Japan; ³International Center for Materials Nanoarchitectonics, National Institute for Materials Science, Japan; ⁴Kobe University, Japan; ⁵Kawazoe Frontier Technologies, Co. Ltd., Japan**SK05 Evidence of inelastic tunneling in magnetic tunnel junctions via capacitance-voltage characteristics**Ajeesh M Sahadevan^{1*}, Gopinadhan Kalon², Charanjit S Bhatia¹ and Hyunsoo Yang², ¹Department of Electrical & Computer engineering, National University of Singapore, Singapore; ²Department of Electrical & Computer engineering, NUSNNI-Nanocore, National University of Singapore, Singapore**SK06 Spin-polarization measurements for Co₂MnSi using Co₂MnSi/MgO/NbN epitaxial tunnel junctions**

Ken-ichi Matsuda, Takaho Shinoki, Tomoyuki Taira, Tetsuya Uemura and Masafumi Yamamoto, Div. of Electronics for Informatics, Hokkaido University, Japan

SK07 Variation of point-contact andreev reflection spectra of ferromagnetically ordered metals

Elina Tuuli* and Kurt Gloos, Department of Physics and Astronomy, University of Turku, Finland

SK08 Fabrication of Highly Sensitive Magnetic Tunnel Junctions for Bio-magnetic Field Sensor ApplicationKosuke Fujiwara^{1*}, Mikihiko Oogane¹, Takuo Nishikawa², Saeko Yokota¹, Hiroshi Naganuma¹ and Yasuo Ando¹, ¹Department of Applied Physics, Tohoku University, Japan; ²LC Business Department, Konica Minolta Opto, Inc., Japan**SK09 Oscillatory exchange coupling and strong magnetoresistance effect in Fe/AgX/Fe (001) heterostructures with X=Cl and Br**Petru Vlaic^{1*} and Emil Burzo², ¹Biophysics Department, University of Medicine and Pharmacy 'Iuliu Hatieganu' 400023 Cluj-Napoca, Romania; ²Faculty of Physics, Babes-Bolyai University RO-400084 Cluj-Napoca, Romania**SK10 Transport properties in double MgO barrier magnetic tunnel junctions with Fe nano-particles**

Pham Van Thach, Do Bang, Shinji Miwa, Takayuki Nozaki, Eiichi Tamura, Norikazu Mizuuchi, Teruya Shinjo and Yoshishige Suzuki*, Graduate School of Engineering Science, Osaka University, Toyonaka, Osaka 560-8531, Japan

SK11 Characterisation of Epitaxial and Polycrystalline Co₂FeSi thin filmsJames Sagar¹, Hiroaki Sukegawa², Leonardo Lari³, Vlado K Lazarov³, Seiji Mitani⁴ and Atsufumi Hirohata^{5*}, ¹Department of Physics, University of York, United Kingdom; ²Magnetic Materials Centre, National Institute for Materials Science (NIMS), 1-2-1 Sengen, Tsukuba 305-0047, Japan; ³Department of Physics, University of York, York, YO10 5DD, United Kingdom; ⁴Magnetic Materials Centre, National Institute for Materials Science (NIMS), 1-2-1 Sengen, Tsukuba, Japan; ⁵Department of Electronics, University of York, York, YO10 5DD, United Kingdom**SK12 Inverse spin polarization at benzene/iron interface**

Souraya Goumri-said*, Mohammed Benali Kanoun, Udo Schwingenschlogl and Aurelien Manchon, Physical Sciences and Engineering Division, King Abdullah University of Science and Technology (KAUST), Saudi Arabia

SK13 Local atomic structure analysis of ferromagnetic semiconductor GeMnTe by atomic resolution holographyNaohisa Hoppo^{1*}, Yuki Takehara¹, Makoto Fujiwara¹, Koichi Tanaka¹, Fumihiko Matsui², Hiroshi Daimon², Tomohiro Matsushita³, Kyoko Okada³, Shinya Senba⁴, Shinya Hosokawa⁵, Kouichi Hayashi⁶ and Hironori Asada⁷, ¹Graduate School of Information Sciences, Hiroshima City University, Japan; ²NAIST, Japan; ³SPRING-8/JASRI, Japan, ⁴Ube National College of Technology, Japan; ⁵Hiroshima Institute of Technology, Japan; ⁶IMR, Tohoku University, Japan; ⁷Yamaguchi University, Japan**SK14 Dependence of the tunneling magnetoresistance on the inserted nonmagnetic layer**

Changsik Choi and Byung Chan Lee*, Department of Physics, Inha University, Korea

SK15 The bulk Fe-Mo double perovskite analyzed from a small clusters perspectiveEliel Carvajal Quiroz^{1*}, Raul Oviedo Roa², Miguel Cruz Irionson¹ and Oracio Navarro³, ¹Instituto Politecnico Nacional, ESIME-Culhuacan, Mexico, ²Programa de Investigacion en Ingenieria Molecular, Instituto Mexicano del Petroleo, Mexico, ³Instituto de Investigaciones en Materiales, Universidad Nacional Autonoma de Mexico, Mexico**SK16 Tunneling magnetoresistance effect in magnetic tunneling junctions with a high resistance ferromagnetic oxide Fe_{2.5}M_{0.5}O₄(M = Mn, Zn) electrode**Eiji Shikoh^{1*}, Teruo Kanki², Hidekazu Tanaka², Teruya Shinjo¹ and Masashi Shiraishi¹, ¹Eng. & Sci., Osaka University, Japan; ²ISIR, Osaka University, Japan**SK17 Monitoring of gamma radiation interaction in PHR sensor**

D. G. Park and Hoon Song, korea atomic energy research institute, Korea

SK18 Reactively sputtered MgAl₂O₄ barrier layers for Heusler tunnel junctions

Keima Inagaki*, Naoto Fukutani, Kenichiro Mari, Hirohito Fujita, Tetsuya Miyawaki, Kenji Ueda and Hidehumi Asano, Crystalline Materials Science, Nagoya University, Japan

SK19 Half-metallic properties of (001) surfaces of the Cr substituted rock-salt GeTe-based compounds

Kalpana Kamalkishor Landge, Beata Bialek and Jae Il Lee*, Physics, Inha university, Korea

SK20 Electronic structure and spin polarization of Co_{2-x}Fe_{1+x}Si Heusler alloyHiroyoshi Itoh^{1*} and Syuta Honda², ¹Department of Pure and Applied Physics, Kansai University, Japan; ²Faculty of Pure and Applied Science, University of Tsukuba, Japan**SK21 Large enhancement of Kerr rotation of GMR periodic patterns using Pt / Co free layer**Kakeru Wada¹, Tsukasa Kobayashi¹, Yuuki Oshino¹, Hiroshi Ono², Tatsutoshi Shioda², Kenji Machida³, Kenichi Aoshima³, Kiyoshi Kuga³, Hiroshi Kikuchi³, Naoki Shimidzu³, Akira Emoto⁴ and Takayuki Ishibashi^{1*}, ¹Department of Materials Science Technology, Nagaoka University of Technology, Japan; ²Department of Electrical Engineering, Nagaoka University of Technology, Japan; ³Science and Technical Research Laboratories, Japan Broadcasting Corp, Japan; ⁴National Institute of Advanced Industrial Science and Technology, Japan**SK22 Ab-initio and tight-binding calculations of magnetic anisotropy phenomena in CoPt**Jan Zemen¹, Jan Masek² and Tomas Jungwirth³, School of Physics and Astronomy, University of Nottingham, Nottingham NG7 2RD, United Kingdom; ²Institute of Physics ASCR v.v.i., Na Slovance 2, 182 21 Praha 8, Czech Republic, ³Institute of Physics ASCR v.v.i., Czech Republic & University of Nottingham, United Kingdom

POSTER PRESENTATION**July 13 (Fri)**

- SK23 Spin polarization of half-metallic Heusler alloy Co₂MnSi by Andreev reflection measurements**
Iduru Shigeta^{1*}, Yuya Nishisako¹, Kohei Harumori¹, Akinari Okubo², Rie Y. Umetsu³, Masakazu Ito¹, Keiichi Koyama¹, Ryosuke Kainuma² and Masahiko Hiroi¹, ¹Department of Physics and Astronomy, Kagoshima University, Japan; ²Department of Materials Science, Tohoku University, Japan; ³Institute for Materials Research, Tohoku University, Japan
- SK24 Electronic properties of Co₂Fe_xMn_{1-x}Si Heusler alloys studied by hard X-ray photoelectron spectroscopy**
A. Gloskovskii¹, S. Ouardi¹, G. H. Fecher², S. Thiess³, W. Drube³, B. Detlefs⁴, T. Kubota⁵, Y. Ando⁵ and C. Felser², ¹Johannes Gutenberg University, Mainz, Germany; ²Max Planck Institute for Chemical Physics of Solids, Dresden, Germany; ³Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany; ⁴ESRF, Grenoble, France; ⁵Department of Applied Physics, Graduate School of Engineering, Tohoku University, Japan
- SK25 Ab-initio calculation of the magnetic properties of bn nanoribbon**
Jeffrey Rufinus, *Science Division, Widener University, USA*
- SK26 Synthesis and functional properties of polycrystalline Fe₃Si-based magnetic tunnel junctions**
Alexander Goikhman^{1*}, Galina Kupriyanova¹, Roberto Mantovan², Andrei Zenkevich³ and Ksenia Maksimova¹, ¹REC 'Functional Nanomaterials', Imanuel Kant Baltic Federal University, Russia; ²Laboratorio MDM IMM-CNR, Italy; ³NRNU 'Moscow Engineering Physics Institute', Russia
- SK27 Half-metallic properties of the (001) surfaces of the half-heusler compounds GeKCa and SnKCa**
Lee-hyun Cho¹, Beata Bialek¹, Jae Il Lee^{1*} and Miyoung Kim², ¹Physics, Inha University, Korea; ²Division of Energy System Research, Ajou University, Korea
- SK28 Half-metallicity in hydrogenated carbon nanotubes**
Kyu Won Lee, Gi-wan Jeon and Cheol Eui Lee*, *Physics, Korea University, Korea*
- SK29 Enhanced perpendicular magnetic anisotropy in Fe/(MgAl₂)OX bilayer structures with interface optimization processes**
J. W Koo¹, S Mitani², H Sukegawa², Z.C Wen², T Niizeki², S Kasai² and K Inomata², ¹University of Tsukuba, Tsukuba National Institute for Material Science, Japan; ²National Institute for Materials Science, Tsukuba, Japan
- SK30 Graphene nano-ribbon and the ripple effect**
Hsin-han Lee, Kuo-chin Chen and Ching-ray Chang*, *Physics, National Taiwan University, Taiwan*
- SK31 Enhancement of spin signal in all-metallic lateral spin valves with half-metallic heusler alloy**
Shinya Kasai, Yukiko Takahashi, Shigeyuki Hirayama, Seiji Mitani and Kazuhiro Hono, *National Institute for Materials Science, Japan*
- SK32 Effect of electron beam rapid thermal annealing on the TMR of CoFeB/MgO/CoFeB magnetic tunnel junctions**
Ganesh K Rajan¹, Shivaraman Ramaswamy^{2*}, C Gopalakrishnan² and John Thiruvadigal³, ¹Nanotechnology Research Center, SRM University, India; ²SRM University, India; ³Department of Physics and Nanotechnology, SRM University, India
- SK33 Preparation of Ti-N films for a capping layer of a CoFeB/MgO-magnetic tunnel junction**
Atsushi Sugihara*, Soichiro Osaki and Ryoichi Nakatani, *Osaka University, Japan*
- SK34 Half-Metallic Molecular Wire on Silicon Surface**
Yunhao Lu¹, Yuan Ping Feng^{2*} and Shuo-wang Yang³, ¹National University of Singapore, Zhejiang University of China, Singapore; ²National University of Singapore, Singapore; ³Institute of High Performance Computing, Singapore

SL: Magnetic nanostructures and arrays

July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: S. Yakata (Kyushu University, Japan)

POSTER PRESENTATION**July 13 (Fri)**

- SL01 Structural and magnetic studies of sol-gel prepared hexagonal BaFe₁₂O₁₉**
Yat Choy Wong^{1*}, Geok Bee Teh², Sun Yung Kim¹ and James Wang¹, ¹Faculty of Engineering and Industrial Sciences, Swinburne University of Technology, Australia; ²Division of Chemistry and Biology, School of Arts and Science, Tunku Abdul Rahman College, Malaysia
- SL02 Magnetization reversal process in antiferromagnetically coupled (Co/Pd)/Ru/(Co/Pd) multilayer dot pattern**
Shunji Ishio^{1*}, Yuta Kobayashi¹, Takashi Hasegawa¹, Akira Arakawa¹, Hiromi Sasaki¹, Zhongjie Yan² and Xi Liu², ¹Department of Materials Science and Engineering, Akita University, Japan; ²Venture Business Laboratory, Akita University, Japan
- SL03 Magnetic properties of mechanically alloyed Fe-Cu particles**
Osamu Kohmoto, Masakazu Uchida and Yasushi Matsushima, *Okayama University, Japan*
- SL04 Temperature dependence of the coercive force of ferromagnetic TM-Al-O (TM=Fe, Co) granular films**
Shintaro Nakamura^{1*}, Akira Yoshihara², Shigehiro Ohnuma³ and Tsutomu Nojima¹, ¹Institute for Materials Research, Tohoku University, Japan; ²shinomaki Senshu University, Japan; ³Research Institute for Electromagnetic Materials, Japan
- SL05 Microscopic dipole-exchange theory for magnonic crystal arrays of interacting ferromagnetic nanorings**
Jan Borchmann, Hoa Nguyen and Michael Cottam, *Department of Physics and Astronomy, University of Western Ontario, Canada*
- SL06 Synthesis and magnetic properties of zinc ferrite nanocrystals and their applications**
Yang Yang, Xiaoli Liu, Chin Shen Ong and Jun Ding*, *Materials Science and Engineering, National University of Singapore, Singapore*
- SL07 Nanocrystallite size-induced changes in the magnetic and transport properties of La_{1-x}Ca_xMnO₃ (x = 1/8, 3/8, 5/8) manganite**
Yugandhar Bitla and S. N. Kaul*, *School of Physics, University of Hyderabad, Central University P.O., Hyderabad - 500 046, India*
- SL08 Magnetic and magneto-optical properties of bilayered Co/Ni anti-dot arrays**
N. G. Deshpande¹, H. Y. Zheng¹, J. S. Hwang¹, S. J. Lee¹, Y. P. Lee^{1*}, J. Y. Rhee² and K. W. Kim³, ¹Physics, Hanyang University, Korea; ²Physics, Sungkyunkwan University, Korea; ³Information Display, Sun Moon University, Korea
- SL09 Diffracted magneto-optical Kerr effect of Co anti-dot structure in different arrangements**
H. Y. Zheng¹, N. G. Deshpande¹, X. R. Jin¹, J. Y. Rhee², K. W. Kim³ and Y. P. Lee^{1*}, ¹Physics, Hanyang University, Korea; ²Physics, Sungkyunkwan University, Korea; ³Information Display, Sun Moon University, Korea
- SL10 Monodisperse magnetic nanoparticles: effects of surfactant concentration on the reaction between Fe(acac)₃ and Pt(acac)₂**
Komkrit Chokprasombat^{1*}, Phimpakha Harding¹, Chitnarong Sirisathitkul¹, Pongsakorn Jantaratan², Sujitta Chandarak³ and Rattikorn Yimnirun⁴, ¹School of Science, Walailak University, Thailand; ²Department of Physics, Kasetsart University, Thailand; ³School of Ceramic Engineering, Institute of Engineering, Suranaree University of Technology, Thailand; ⁴School of Physics, Institute of Science, Suranaree University of Technology, Thailand
- SL11 Hollow MnCO₃ and MnSiO₃ nanospheres**
Zvonko Jaglicic¹, Jin Bae Lee², Hae Jin Kim² and Janez Dolinsek³, ¹Dept. of Physics, Institute of Mathematics, Physics and Mechanics & University of Ljubljana, FGG, Slovenia; ²Division of Materials Science, Korea Basic Science Institute, Daejeon 305-333, Korea; ³Condensed Matter Physics, J Stefan Institute, University of Ljubljana, Jamova 39, SI-1000 Ljubljana, Slovenia

POSTER PRESENTATION**July 13 (Fri)**

- SL12 Shape-controlled synthesis and magnetic properties of FePt nanocubes**
Mingge Zhou^{1*}, Wei Li², Minggang Zhu², Dong Zhou² and Yanglong Hou³, ¹*Division of Functional Materials, Central Iron and Steel Research Institute, China; ²Central Iron and Steel Research Institute, China; ³Department of Advanced Materials and Nanotechnology, College of Engineering, Peking University, China*
- SL13 Magnetic properties of NiO/Ni(OH)2 core-shell nanostructures**
Mangesh B. Mahajan and P. A. Joy*, *Physical and Materials Chemistry, National Chemical Laboratory, Pune, India*
- SL14 Structural and magnetic properties of MFe₂O₄ (M=Ni, Mg) nano hollow spheres**
K. Konishi^{1*}, T. Sakurai¹, Y. Nagano², N. Manabe² and Y. Morimoto², ¹*Department og Physics, Graduate School of Science and Engineering, Ehime University, Japan; ²Department og Physics, Faculty of Science, Ehime University, Japan*
- SL15 Magnetization reversal in patterned arrays of (001)Fe particles**
Maj Hanson^{1*}, Rimantas Brucas² and Erik Wahlstrom³, ¹*Department of Applied physics, Chalmers university of technology, Sweden; ²Department of Engineering Science, Solid State Physics, Uppsala University, Sweden; ³Institutt for fysikk, NTNU, Norway*
- SL16 Controllable structure and magnetic properties of cobalt nanowires by tuning deposition voltage**
Xiu Xiu Fan¹, Hai Ning Hu² and Zhong Shi^{3*}, ¹*Surface Physics State Laboratory and Department of Physics, Fudan University, China; ²School of Mathematics and Physics, Shanghai University of Electric Power, China; ³Department of Physics, Tongji University, China*
- SL17 Magnetotransmission effect in Nd_{0.5}Sr_{0.5}MnO₃ nano-composites**
Elena Mostovshchikova, Natalya Loshkareva, Andrey Telegin*, Nikolay Solin, Sergey Naumov and Sergey Telegin, *Institute of Metal Physics UD of RAS, Russia*
- SL18 Influence of asymmetric permalloy ring on magnetization configuration and switching behavior**
Chao-hsien Huang^{1*}, Lance Horng¹, Nian-jia Cheng², Tian-chiuan Wu³ and Jong-ching Wu¹, ¹*Department of Physics, National Changhua University of Education, Taiwan; ²Institute of photonics, National Changhua University of Education, Taiwan; ³Department of Electronic Engineering, National Formosa University, Taiwan*
- SL19 Fabrication of high aspect ratio nanoscale magnetic tunnel junction etch mask by oxygen plasma assisted resist trimming**
Bongho Kim¹, Daehong Kim¹, Sungwoo Chun¹, Hyungyu Lee¹, Seonjun Choi¹ and Seung-beck Lee^{2*}, ¹*Department of Electronic Engineering, Hanyang University, Seoul, Korea; ²Department of Nanoscale Semiconductor Engineering, Hanyang University, Seoul, Korea*
- SL20 Magnetic properties of iron(III) oxide nanostructures by hydrothermal synthesis**
Raquel A Ribeiro*, Allan M Xavier and Flavio L Souza, *Centro de Ciencias Naturais e Humanas, Universidade Federal do ABC - UFABC, Brazil*
- SL21 Magnetic dot-antidot lattice for control of magnetic anisotropy**
Sadashivaiah Sakshath*, Kalappattil Vijaysankar, Karki S Bhagyashree, Subray V Bhat and P. S. Anil Kumar, *Department of Physics, Indian Institute of Science, Bangalore, India*
- SL22 Effect of diameter of the wires on magnetic properties of electrodeposited CoNiP hard magnetic nanowires**
Tuan Tu Le^{1*}, Pham Hong Quang¹, Luu Van Thiem², T.S. Ramulu³ and Cheolgi Kim³, ¹*Faculty of physics, University of Science, Vietnam National University, 334 Nguyen Trai, Thanh Xuan, Hanoi, Vietnam; ²Faculty of Engineering Physics and Nanotechnology, College of Technology, Vietnam National University, 144 Xuan Thuy, Caugia, Hanoi, Vietnam; ³Department of Materials Science and Engineering, Chungnam National University, Daejeon 305-764, Korea*

POSTER PRESENTATION**July 13 (Fri)**

- SL23 Switching behavior of lithographically defined grid of permalloy nanowires studied with magnetoresistance**
Venkateswarlu Dasari, Vineeth Mohanan Parakkat and Anil P. S. Kumar, *Physics, Indian Institute of Science, India*
- SL24 Magnetization reversal modes in narrow FePt nanowires with high perpendicular anisotropy**
Van Dai Nguyen¹, Laurent Vila¹, Matthieu Tissier², Alain Marty¹, Murat Cubukcu¹, Piotr Laczkowski¹, Williams Savero-torres¹, Juan-carlos Rojas Sanchez¹ and Jean-philippe Attane¹, ¹*Universite Joseph Fourier, BP 53, 38041, Grenoble and INAC/ CEA Grenoble, France; ²LPTMC, CNRS-UMR 7600, Universite Pierre et Marie Curie, boite 121, 4 Pl. Jussieu, 75252 Paris Cedex, France*
- SL25 Structural and magnetic behaviour of nanocrystalline CaFe₂O₄**
S. N. Dolia*, Arvind Samariya, Arun S. Prasad, P. K. Sharma, M. S. Dhawan and S. P. Pareek, *Department of Physics, University of Rajasthan, Jaipur, India*
- SL26 Magnetoresistance of helimagnetic ordering in single crystal FeGe nanowires**
Tae-eon Park¹, Byoung-chul Min¹, Dong-jae Seo², Younho Park¹, Heon-jin Choi² and Joonyeon Chang^{1*}, ¹*Spin Device Research Center, KIST, Korea; ²Department of Materials Science and Engineering, Yonsei University, Korea*
- SL27 Arrays of interacting ferromagnetic nanofilaments: small-angle neutron diffraction study**
Natalia Grigoryeva^{1*}, Sergey Grigoriev², Arseniy Syromyatnikov², Andrey Chumakov², Helmut Eckerlebe³, Kirill Napolksiy⁴, Ilya Roslyakov⁴ and Andrey Eliseev⁴, ¹*Faculty of Physics, Saint Petersburg State University, Russia; ²Konstantinov Petersburg Nuclear Physics Institute, Russia; ³Helmholtz Zentrum Geesthacht, Germany; ⁴Moscow State University, Russia*
- SL28 Magnetic properties of nanometer scale FeCr antidot array system**
Shivaraman Ramaswamy and Geo George Philip, *Nanotechnology Research Center, SRM University, India*
- SL29 Fabrication of Al-Ni core-shell structured particles via electroless ni plating**
Youn-kyoung Baek*, Jung-goo Lee, Sangsun Yang and Chul-jin Choi, *Powder & Ceramic Research Division, Korea Institute of Materials Science, Korea*
- SM: Magnetic thin films and others**
July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)
Chairperson: K. Mibu (Nagoya Institute of Technology, Japan)
- SM01 Breakdown of barkhausen critical scaling behavior with increasing domain wall pinning in fe thin films**
Hun-sung Lee¹, Kwang-su Ryu², Chun-yeol You³, Kun-rok Jeon¹, Stuart S. P. Parkin² and Sung-chul Shin^{1*}, ¹*Korea Advanced Institute of Science and Technology (KAIST), Daejeon 305-701, Korea; ²IBM Research Division, Almaden Research Center, San Jose, CA 95120, USA; ³Department of Physics, Inha University, Incheon 402-751, Korea*
- SM02 Enhanced critical fields in MnSi thin films**
Dirk Menzel*, Josefina Engelke, Tommy Reimann and Stefan Suellow, *Institute for Condensed Matter Physics, Technische Universität Braunschweig, Germany*
- SM03 Magnetism and Cr₂O₃-Fe₂O₃ structure of CoFe/Cr-NOL surface**
Naoki Shimomura^{1*}, Kazuya Sawada², Tomohiro Nozaki¹, Masaaki Doi³ and Masashi Sahashi¹, ¹*Department of Electronic Engineering, Graduate School of Engineering, Tohoku University, Japan; ²Toshiba Corporation, Japan; ³Tohoku Gakuin University, Japan*
- SM04 Magnetic phase diagram for non-epitaxial Cr/Gd/Cr-multilayers**
Andres Rosales Rivera^{1*}, Juan Fernando Jaramillo¹, Nicolas Antonio Salazar¹, Olatz Idigoras² and Andreas Berger², ¹*Laboratorio de Magnetismo y Materiales Avanzados, Universidad Nacional de Colombia, Sede Manizales, Colombia; ²CIC nanoGUNE Consolider, Tolosa Hiribidea 76, E-20018 Donostia-San Sebastian, Spain*

POSTER PRESENTATION**July 13 (Fri)****SM05 Revealing the volume magnetic anisotropy of Fe films epitaxed on GaAs(001) surface**

G. Chen¹, J. Zhu¹, J. Li² and Yizheng Wu³, ¹*Physics Department, Fudan University, China;* ²*Physics Department, Fudan University, China;* ³*Physics Department, Fudan university, China*

SM06 Structures and magnetic properties of ultrathin Ni/Cu(100) in hydrochloric acid

Jyh-shen Tsay*, Chun-liang Lin, An-wei Wu, Ying-chieh Wang and Yu-chieh Tseng, *National Taiwan Normal University, Taiwan*

SM07 Improvement in structural and magnetic properties of laser ablated Ni-Zn Ferrite thin films

Raghavender A T^{1*}, Nguyen Hoa Hong¹, Ekaterina Chikoidze², Yves Dumont² and Kurisu Makio³, ¹*Department of Physics and Astronomy, Seoul National University, Korea;* ²*Laboratoire GeMAC, Universite de Versailles, France;* ³*Department of Physics, Ehime University, Japan*

SM08 A basic study of magnetic anisotropy strength control using FeSiB magnetostrictive thin film

Jaewon Shin*, Sung Hoon Kim, Genki Kitazawa, Shuichiro Hashi and Kazushi Ishiyama, *Research Institute of Electrical Communication, Tohoku University, Japan*

SM09 Magnetic properties of co thin films on polyethylene naphthalate organic substrates

Hideo Kaiju*, Taro Abe, Kenji Kondo and Akira Ishibashi, *Research Institute for Electronic Science, Hokkaido University, Japan*

SM10 Effects of dimensionality on magnetization of Ho and Sm-doped BiFeO₃ thin films

Tae-young Kim^{1*}, Anupati Telugu Raghavender², Sugawara Takashi³, Makio Kurisu³ and Nguyen Hoa Hong⁴, ¹*Physics, Seoul National University, Korea;* ²*Physics, Seoul National University, India;* ³*Physics, Ehime university, Japan;* ⁴*Physics, Seoul National University, France*

SM11 Substrate-dependent electronic anisotropy of epitaxial multiferroic DyMnO₃ and Dy_{0.8}Ca_{0.2}MnO₃thin films

Kueih-tzu Lu, S. C. Haw, T. L. Chou, J. M. Lee, S. A. Chen and J. M. Chen, *National Synchrotron Radiation Research Center, Taiwan*

SM12 Enhanced magnetization by substitution of Zn²⁺ in Fe₃O₄ films

Chang-yup Park¹, Jong-hyun Song², Chun-yeol You³ and Sung-chul Shin^{4*}, ¹*Department of Physics and Center for Nanospinics of Spintronic Materials, Korea Advanced Institute of Science and Technology, Daejeon 305-701, Korea;* ²*Department of Physics, Chungnam National University, Daejeon 305-764, Korea;* ³*Department of Physics, Inha University, Incheon 402-751, Korea;* ²*Department of Physics and Center for Nanospinics of Spintronic Materials, KAIST, Daejeon, Department of Emerging Materials Science, DGIST, Daegu, Korea*

SM13 Growth temperature dependence of crystal orientation and magnetic properties of CoMn₂O₄ thin films

Taeyoung Koo¹, Jaeyoung Kim¹, Sunhee Kang², Illwon Kim², Yoonhee Jeong³, Myunghwa Jung⁴ and Jonghyun Song^{5*}, ¹*Pohang Accelerator Laboratory, Korea;* ²*Physics, Ulsan University, Korea;* ³*Physics, Pohang University of Science and Technology, Korea;* ⁴*Physics, Sogang University, Korea;* ⁵*Physics, Chungnam National University, Korea*

SM14 Structure and magnetic properties of Fe₃O₄ thin films on different substrates by Pulsed Laser Deposition

Xuelian Huang, Yang Yang and Jun Ding*, *Materials Science and Engineering, National University of Singapore, Singapore*

SM15 Influence of crystallographic orientation on the magnetic properties of NiFe, Ni, and Co epitaxial fcc films grown on single-crystal substrates

Taiki Ohtani*, Tetsuroh Kawai, Mitsuru Otake and Masaaki Futamoto, *Chuo University, Japan*

SM16 Magnetic coupling in manganite-based thin film heterostructures studied by Electron Holography

Luis Alfredo Rodriguez¹, Lorena Marin², Cesar Magen^{3*}, Irene Lucas⁴, Pedro Antonio Algarabel⁴, Luis Morellon², Jose Maria De Teresa⁴ and Manuel Ricardo Ibarra¹, ¹*LMA-INA, Universidad de Zaragoza, 50018, Zaragoza, Spain;* ²*INA, Universidad de Zaragoza, 50018, Zaragoza, Spain;* ³*LMA-INA and ARAID, Universidad de Zaragoza, 50018, Zaragoza, Spain;* ⁴*ICMA, Universidad de Zaragoza-CSIC, 50009, Zaragoza, Spain*

POSTER PRESENTATION**July 13 (Fri)****SM17 Properties of hybrid superconductor/ferromagnet (SC/FM) multilayers**

U. D. Chacon Hernandez¹, Y. T. Xing², William E. Alayo¹, Magda B. Fontes¹, Jorge L. Gonzalez³, Liying Liu⁴, G. Solorzano⁴ and E. Baggio-saitovitch¹, ¹*Centro Brasileiro de Pesquisas Fisicas, Rio de Janeiro, Brazil;* ²*Universidade Federal Fluminense Niteroi, Brazil;* ³*Universidade Federal do Espirito Santo, Vitoria, Brazil;* ⁴*PUC-Rio de Janeiro, Brazil*

SM18 Effect of substrate on the anisotropic magnetotransport in Sm_{0.45}Nd_{0.10}Sr_{0.45}MnO₃ thin films

Pawan Kumar¹, M. K. Srivastava¹, G. D. Verma², R. K. Dwivedi³ and H. K Singh¹, ¹*Quantum Phenomena and Applications, National Physical Laboratory (CSIR), India;* ²*Department of Physics, IIT Roorkee, India;* ³*Department of Physics & Materials Science and Engineering, Jaypee Institute of Information Technology (Deemed University), India*

SM19 Magnetism of multilayer (CoNiPsoft/CoPhard)n films

Gennady Patrin¹, Marina Pal'chik², Dmitry Balaev², Semion Kiparisorov² and Konstantin Patrin², ¹*Siberian Federal University, Russia;* ²*Institute of Physics of Siberian Branch of Russian Academy of Sciences, Russia*

SM20 Significant change in the antiferromagnetic-to-ferromagnetic phase transition temperature of epitaxial FeRh thin films by Ga substitution

Ippei Suzuki^{1*}, Mitsuru Itoh¹, Tetsuya Sato² and Tomoyasu Taniyama¹, ¹*Materials and Structures Laboratory, Tokyo Institute of Technology, Japan;* ²*Department of Applied Physics and Physico-Informatics, Keio University, Japan*

SN: Hard magnetic materials II

July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)

Chairperson: Ji-Hun Yu (KIMS, Korea)

SN01 Structural and magnetic properties of Sm₂Co₁₇ nanoflakes prepared by surfactant-assisted ball milling

Ming Yue, Rui Pan, Xiaofei Yin, Dongtao Zhang, Weiqiang Liu and Jiuxing Zhang, *College of Materials Science and Engineering, Beijing University of Technology, China*

SN02 Rotor structure optimization of interior permanent magnet by using response surface method

Jung-ho Han, Ik-sang Jang, Mi-jung Kim, Ki-doek Lee and Ju Lee*, *Electrical Engineering, Hanyang University, Korea*

SN03 Magnetization reversal behavior of FePt/MgO/FePt thin film

Hiroki Iwama, Shinji Matsumoto, Katsuya Sugawara, Kotaro Sato, Masaaki Doi and Toshiyuki Shima, *Tohoku Gakuin University, Japan*

SN04 Efficiency and torque density improvement of interior permanent magnet synchronous motor

Mi Jung Kim, Ki Doek Lee, Jae-jun Lee, Jeong-ho Han, Tae-chul Jeong, Woong-chan Chae and Ju Lee*, *Hanyang University, Korea*

SN05 An effective skew method for torque ripple reduction in surface-mounted permanent magnet motor

Taewoo Kim and Junghwan Chang*, *Electrical Engineering, Dong-A University, Busan, 604-714, Korea*

SN06 Effect of carbon additive on the TbCu_x-type melt spun Sm(Co, M)7 (M=Ti, Zr, Hf, V, Nb and Ge) ribbons

C.C. Hsieh¹, H.W. Chang², C.W. Shih¹, W.C. Chang^{1*} and C.C. Shaw³, ¹*National Chung Cheng University, Taiwan;* ²*Tunghai University, Taiwan;* ³*Superrite Electronics Co. Ltd, Taiwan*

SN07 Study of designed induction motor on cryogenic LNG pump system

Jinsung Kim and Gwansoo Park*, *Pusan National University, Korea*

SN08 Structural and magnetic properties of nanocrystalline BaFe₁₂O₁₉ synthesized by microwave-hydrothermal method

K Sadhana and K Praveena, *Materials Research Centre, Indian Institute of Science, Bangalore-560012, India*

POSTER PRESENTATION**July 13 (Fri)**

- SN09** Research magnetic properties of Fe-O alloys with different texture degrees and ratios of phases using simulating
Alexey Lileev*, Ivan Pelevin and Anna Starikova, National University of Science and Technology 'MISIS', Russia
- SN10** Study on FePt/Fe exchange coupling nanocomposite thin films
Wenli Pei, ATM, Northeastern University, China
- SN11** Effects of Sm content on thermal stability of sintered Sm₂Co₁₇ magnets
Minggang Zhu, Haibo Feng, Wei Li, Yikun Fang, Wencheng Zhang and Wei Pan, China Iron & Steel Research Institute Group, China
- SN12** Simulation of die-upsetting process of hot-deformed magnets
Bin Lai*, Huijie Wang, Minggang Zhu and Wei Li, Division of Functional Materials, Central Iron & Steel Research Institute, China
- SN13** Synthesis of high magnetic moment nanowires for encoding and decoding of barcode segments for multiplexing bio- applications
Torati Sri Ramulu¹, Reddy Venu¹, Brajyalal Sinha¹, Xinghao Hu¹, Sook Soo Yoon² and Cheol Gi Kim^{1*}, ¹Material science and engineering, Chungnam national university, Korea; ²Material science and engineering, Andong national university, Korea
- SN14** A new mechanism of electromagnetic linear-actuator using a magnetic silicone rubber
Takanori Fukushi, Sung Hoon Kim*, Shuichiro Hashi and Kazushi Ishiyama, Research Institute of Electrical Communication, Tohoku University, Japan
- SN15** Novel microcrystalline Co-Zr-B RE-free hard magnetic alloys
Sofoklis Makridis and Evangelos Gkanas, Department of Mechanical Engineering, University of Western Macedonia, Greece

SO: Novel magnetic materials and devices I

July 13 (Fri), 13:30~15:30, Exhibition Hall 1 (1F)

Chairpersons: Asaya Fujita (Tohoku University, Japan)

Sunglae Cho (University of Ulsan, Korea)

- SO01** First-principles study on the half-metallicity of full-Heusler alloy Co₂VGa (111) surface
Hongpei Hong, Kailun Yao* and Guoying Gao, physics, Huazhong university of science and technology, China
- SO02** Magnetic and resonance properties of Bi₂₄(CoBi)O₄₀
Sergey Stepanovich Aplesnin¹, Maksim Nicolaevich Sitnikov¹, Lubov Victorovna Udod² and Dmitrii Anatol'evich Velicanov², ¹M.F. Reshetnev Siberian State Aerospace University, Russia; ²L.V. Kirensky Institute of Physics, Russia
- SO03** Field induced phase transitions and magnetocaloric properties in Er_{1-x}Lu_xFe₂O₄ compound
Peng Zhang¹, Ying-de Zhang¹, Young-yeal Song¹, Jae-yeong Kim², Bo-wha Lee² and Seong-cho Yu^{1*}, ¹Physics, Chungbuk National University, Korea; ²Physics, Hankuk University of Foreign Studies, Korea
- SO04** Magnetic properties of heusler-type Ni-Mn-Ga glass-coated microwires
Valeria Rodionova¹, Maxim Ilyn², Valentina Zhukova^{2*}, Alexander Granovsky³, Alexander Aronin⁴, Galina Abrosimova⁴ and Arcady Zhukov⁵, ¹Dpto. de Fisica de Materiales and Faculty of Physics, UPV/EHU San Sebastian, Lomonosov Moscow State University and Immanuel Kant Baltic Federal University, Russia; ²Dpto. de Fisica de Materiales, UPV/EHU, Spain; ³Dpto. de Fisica de Materiales and Faculty of Physics, UPV/EHU, San Sebastian, Spain and Lomonosov Moscow State University, Moscow, Russia; ⁴Institute of Solid State Physics, RAS, Chernogolovka, 142432, Moscow Region, Russia; ⁵Dpto. de Fis. Mater., UPV/EHU San Sebastian and IKERBASQUE, Basque Foundation for Science, Bilbao, Spain

POSTER PRESENTATION**July 13 (Fri)**

- SO05** Compensated magnetism in double perovskites A₂CrFeO₆ (A=La,Sr)
Kyo-hoon Ahn¹ and Kwan-woo Lee^{2*}, ¹Department of Applied Physics, Graduate School, Korea University, Sejong, Korea; ²Department of Display and Semiconductor Physics, Korea University, Sejong, Korea
- SO06** Possible half-metal antiferromagnetism in double perovskites A₂VMnO₆ (A=La,Sr)
Myung-chul Jung¹, Young-joon Song¹ and Kwan-woo Lee^{2*}, ¹Department of Applied Physics, Graduate School, Korea University, Sejong, Korea; ²Department of Display and Semiconductor Physics, Korea University, Sejong, Korea
- SO07** Focused magneto-optic kerr effect spectroscopy in Ni₇₅Fe₂₅ and Fe ferromagnetic thin films on organic substrates
Kenji Kondo*, Hideo Kaiju and Akira Ishibashi, Laboratory of Quantum Electronics, Research Institute for Electronic Science, Japan
- SO08** The structural and magnetic properties of the magneto-caloric compounds Mn_{0.66}Fe_{1.29}P_{1-x}Si_x (x = 0.34, 0.37 and 0.42)
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Radha S¹, Ashwin Mohan² and A. K. Nigam^{2*}, ¹*Department of Physics, University of Mumbai, India; ²Department of Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research, India*

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Valeria Rodionova^{1*}, Mikhail Ipatov², Maxim Ilyn³, Valentina Zhukova⁴, Alexander Granovsky⁵ and Arcady Zhukov⁶, ¹*I. Kant Baltic Federal University, UPVIEHU, Lomonosov Moscow State University, Russia; ²UPVIEHU, Spain; ³Centro de Física de Materiales, CSIC/UPV, Spain; ⁴Dpto. Fisica de Materiales, Fac. Quimicas, UPVIEHU, Spain; ⁵Lomonosov Moscow State University, IKERBASQUE, Basque Foundation for Science, Spain; ⁶Dpto. Fisica de Materiales, Fac. Quimicas, UPVIEHU, IKERBASQUE, Basque Foundation for Science, Spain*

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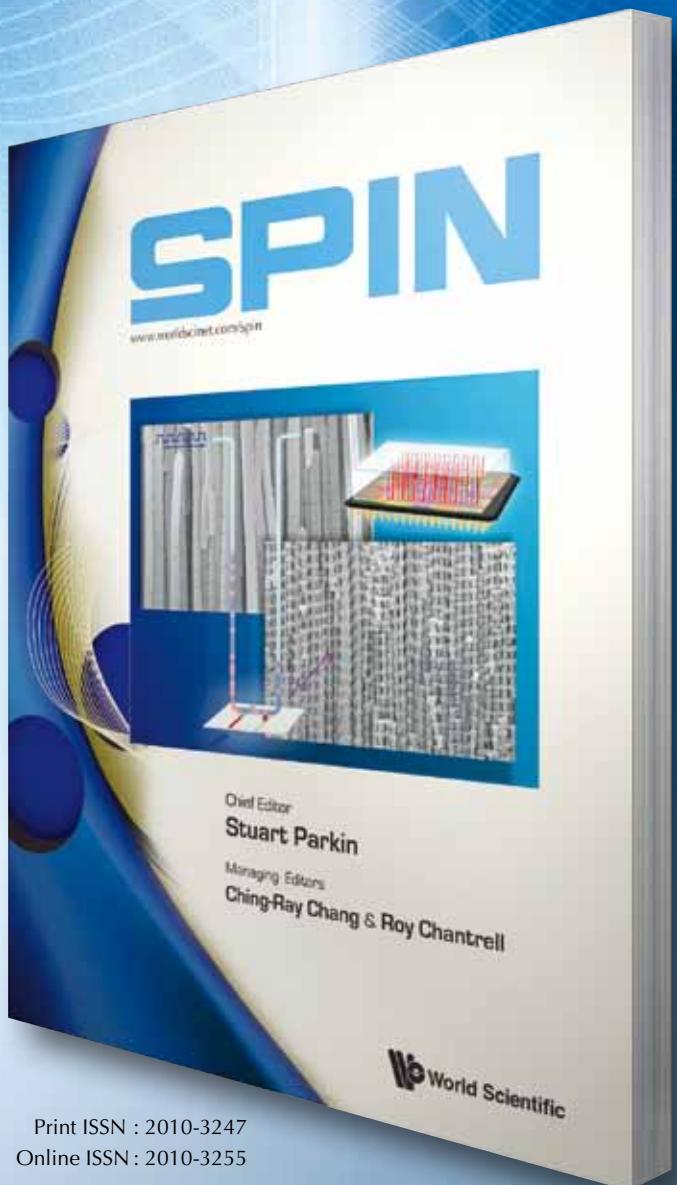
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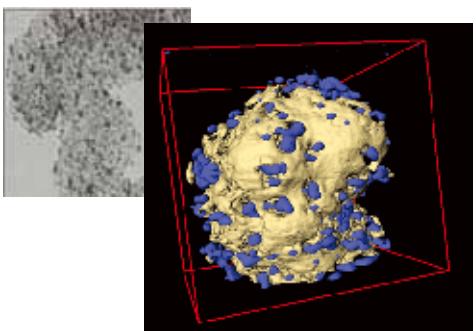
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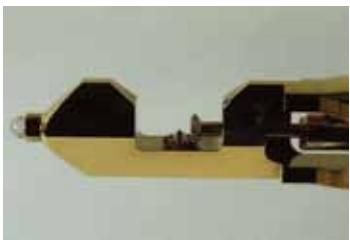
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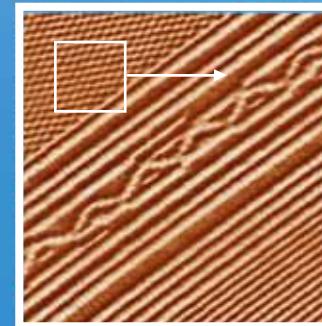
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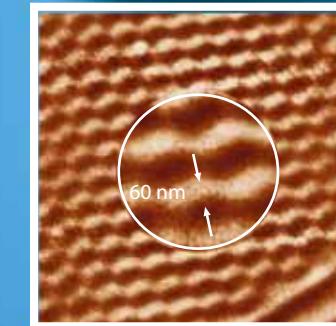
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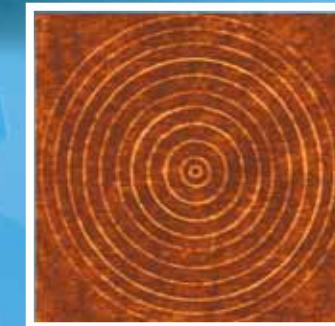
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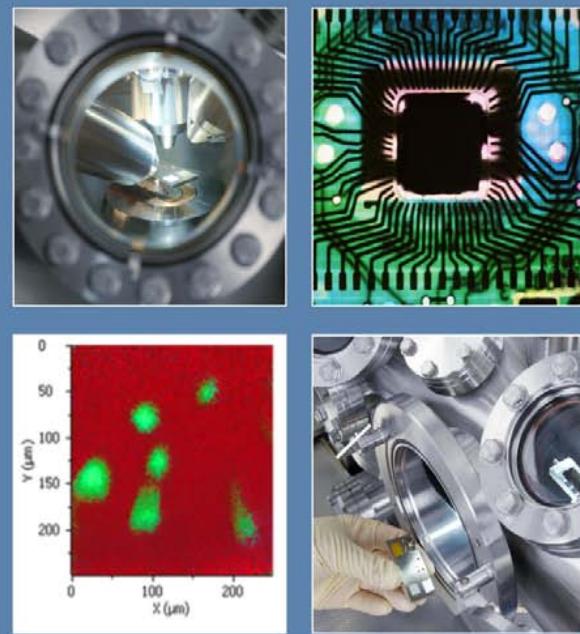
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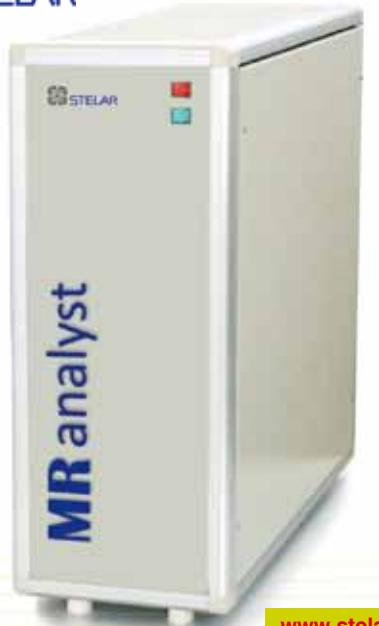
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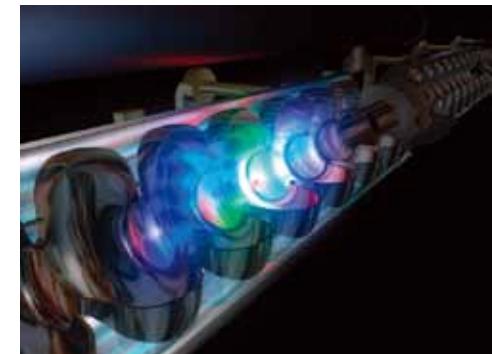
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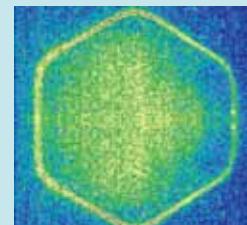
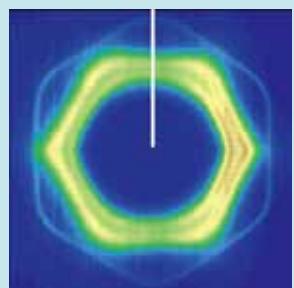
Advanced scientific technology of
Bright future in the 21st century

PAL-XFEL

The characteristics of ultra-fast , ultra-small and coherent of X-ray Free Electron Laser will provide high level of scientific research in the 21st century.



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(주)한국이이티에스
Korea I.T.S. Co., Ltd.

서울시 송파구 잠실동 222 서일빌딩 4층

Tel : (02) 540-4360 | Fax : (02) 544-4456 | <http://www.koreaitss.com> | E-mail : kits@koreaitss.com



POHANG ACCELERATOR LABORATORY



Why does POSCO produce advanced materials of future beyond steel?

POSCO is pioneering the development of advanced materials, a core industry to green growth.

Environment-friendly industries such as next-generation automobiles require energy-efficient new materials. POSCO, on the basis of steelmaking know-how, is taking a big leap forward as a comprehensive materials maker that develops and produces from steel-related materials to future core materials. It will manufacture these materials on its own, which it used to depend on other countries, so as to play an important role in the national economic development. POSCO's such efforts will continue to be made in developing new advanced materials.

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Make Your Ideal Design



• Sendust Core



• High Flux Core



• MPP Core



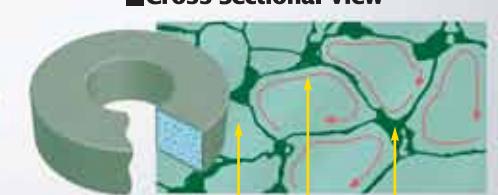
• Mega Flux Core

Magnetic Powder Cores

Powder cores with distributed air gaps are made from ferrous alloy powders for low losses at high frequencies. Micro air gaps distributed evenly throughout the cores increase the amount of DC that can be passed through the winding before core saturation occurs. Powder cores are not pressed with an organic binder, and are therefore not effected by any thermal aging .



■ Cross Sectional View



■ Core materials

- MPP Cores: Ni-Fe-Mo alloy
- High Flux Cores: Ni-Fe alloy
- Sendust Cores: Fe-Si-Al alloy
- Mega Flux Cores: Fe-Si alloy

■ Core Finishes

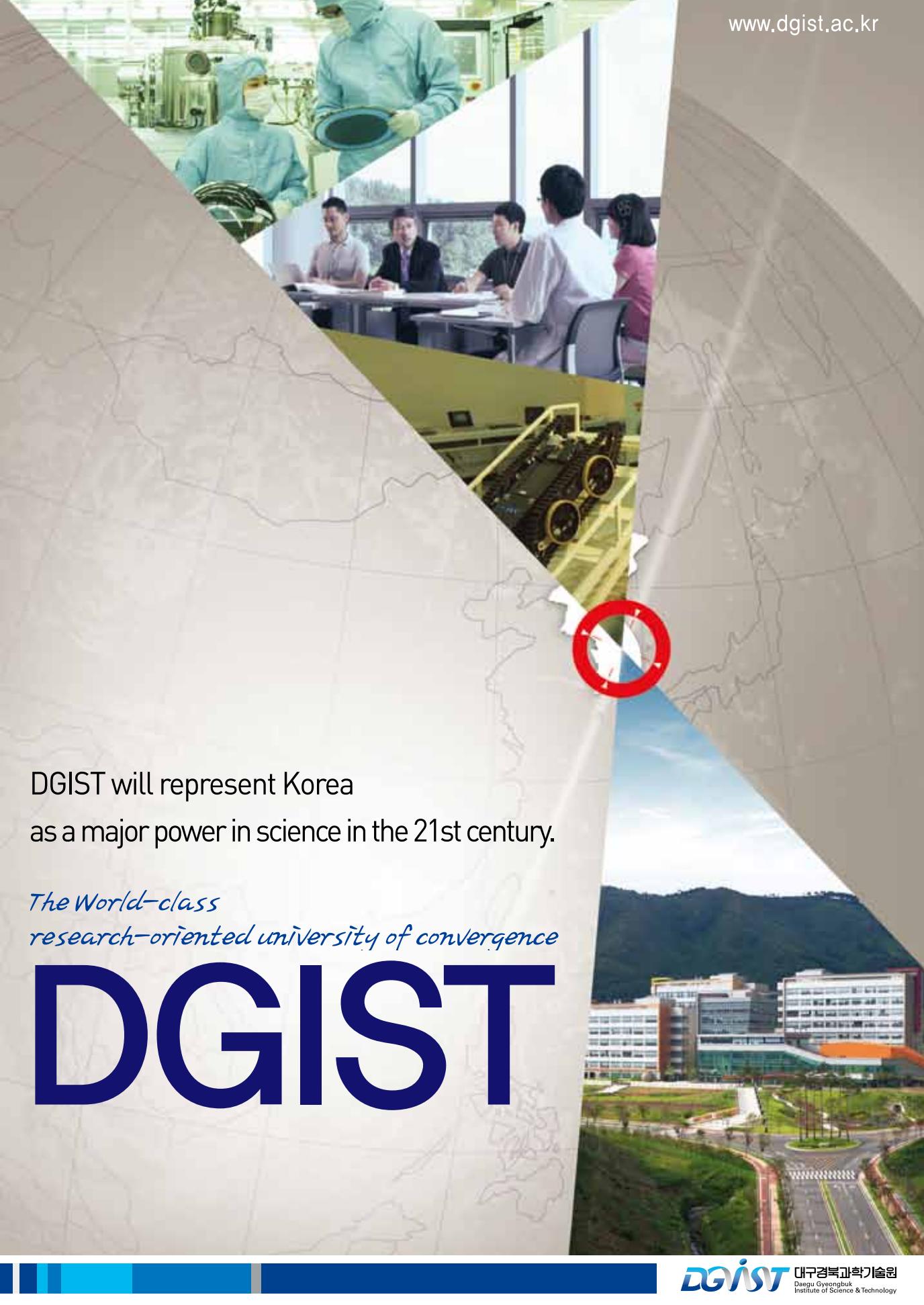
- Finish: Epoxy, Parylene-C, Plastic Case

● Color:

- MPP: Gray • Mega Flux: Darkbrown
- High Flux: Khaki • Sendust: Black

■ Availability

- Sizes: From 3.5mm OD ~ 165.0mm OD
- Permeabilities:
 - MPP: 26, 60, 125, 147, 160, 173, 200 μ
 - High Flux: 26, 60, 125, 147, 160 μ
 - Sendust: 26, 60, 75, 90, 125 μ
 - Mega Flux: 40, 50, 60, 75, 90 μ



DGIST will represent Korea
as a major power in science in the 21st century.

*The World-class
research-oriented university of convergence*

DGIST

Better Technology for a green tomorrow





Conference Secretariat

People-X, Inc., 1F Haeoreum Bldg, 748-5, Yeoksam-dong, Gangnam-gu, Seoul 135-080, Korea Tel: +82-2-557-8422 Fax: +82-2-566-6087 Email: icm@icm2012.org