

IcAUMS 2025

The 7th International Conference of Asian Union of Magnetics Societies

April 21-24, 2025 / Okinawa, Japan



The 7th International Conference of Asian Union of Magnetism Societies (IcAUMS2025)

Date April 21-24 (Mon.-Thu.), 2025

Venue Okinawa Convention Center, Okinawa, Japan

Registration Desk

First Floor Lobby, Conference Building A,

Conference Headquarter

Theater Building, Conference Room C

E-mail: msj@bj.wakwak.com

Plenary talk

April 21 (Mon.), 2025, 13:30-14:30

“Invention of Nd-Fe-B sintered magnet and development of basic research”

Masato Sagawa (Daido Steel Co., Ltd.)

“Asian Magnetism Initiative”

Kyung Ho Shin (Daegu Gyeongbuk Institute of Science & Technology)

April 23 (Wed.), 2025, 13:30-14:30

“Magnetic Tunnel Junctions and Josephson junctions formed
from 2D van der Waals layers”

Stuart Parkin (Max Planck Institute)

“Using skyrmions for AI and using AI for skyrmion research”

Mathias Kläui (Johannes Gutenberg University Mainz)

AUMS Awardees (Plenary speakers)

“STT-MRAM: From Technology Breakthroughs to Products and Applications”

Yiming Huai (Avalanche Technology Inc.)

“X-spintronics”

Teruo Ono (Kyoto University)

AUMS Young Researcher Awardees (Invited speakers)

“Exploring Anomalous Hall Effect in Rare-Earth Transition-Metal (RE-TM)

Ferrimagnets for Spintronics Applications”

Ramesh Chandra Bhatt (National Yunlin University of Science and Technology)

“Emergence of Giant Magnetic Chirality during Dimensionality Crossover of Magnetic
Materials”

Duck-Ho Kim (Korea Institute of Science and Technology)

“Handedness manipulation and electrical readout of propagating antiferromagnetic
magnons”

Yoichi Shiota (Kyoto University)

“Deep supercooling solidification for high-performance soft magnetic alloys”

Chen Wu (Zhejiang University)

Banquet

April 22 (Tue.), 2025, 18:00-20:00

LAGUNA GARDEN HOTEL OKINAWA

(4-1-1 Mashiki, Ginowan-shi, Okinawa 901-2224 Japan)

Organizing Committee

Honorary Chair: Young Keun Kim (AUMS President, KMS Honorary President, Korea University)

General Chair: Yasushi Takemura (MSJ President, Yokohama National University)

Conference Chair: Hideto Yanagihara (University of Tsukuba)

Program Co-Chairs: Masaki Mizuguchi (Nagoya University),
Yasuyuki Okada (Mitsubishi Electric Corporation)

General Co-Secretaries: Hiromi Yuasa (Kyushu University), Hiroaki Kikuchi (Iwate University)

Treasurer: Akinobu Yamaguchi (Toyo University)

Publications Co-Chairs: Shin Yabukami (Tohoku University),
Tomoyasu Taniyama (Nagoya University)

Publicity Co-Chairs: Koichi Kakizaki (Saitama University), Yukio Nozaki (Keio University)

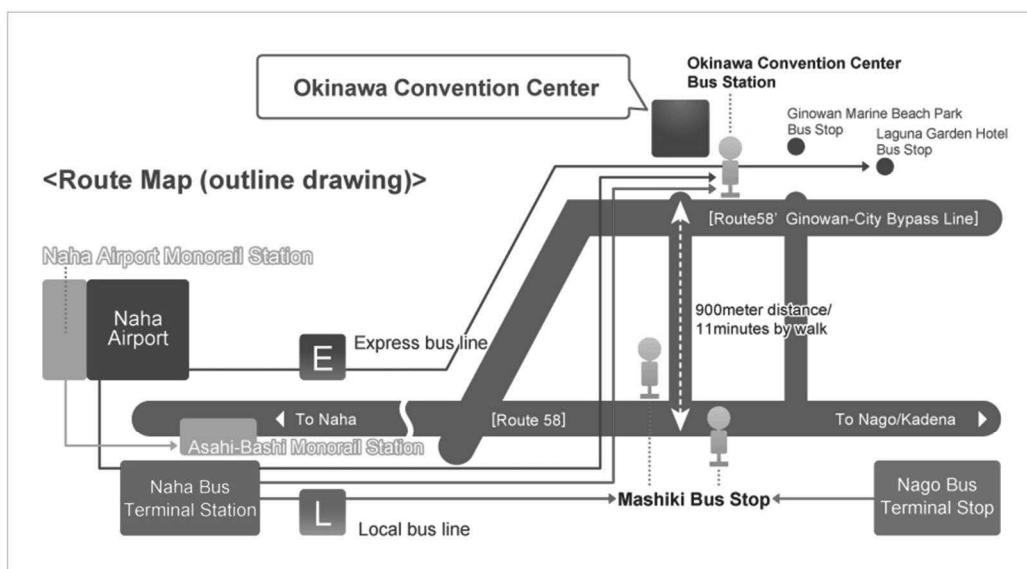
Exhibits & Sponsorship Co-Chairs: Rie Umetsu (Tohoku University),
Teruo Ono (MSJ VP, Kyoto University)

Local Co-Chairs: Ken-ichi Yamamoto (University of Ryukyus), Yasutomi Tatetsu (Meio University)

Conference Secretariat: Akira Kikitsu (MSJ VP, Toshiba), Yasuyoshi Miyamoto (NHK),
Toyokazu Yamada (Chiba Univ.), Hiroyasu Nakayama (AIST),
Yota Takamura (Science Tokyo)

Access to Okinawa Convention Center

Bus/Monorail



Route number is indicated on the front display of each route bus. Please pick the appropriate route number.

Access form Naha Bus Terminal Station.

E To the Okinawa Convention Center Bus Stop.
 - Route Number: No.26 • No.43 • No.32 • No.55(takes from 40 minute to 60 minutes) Fare: ¥530
 Route Number: No.112(takes 50 minute) • No.99 (takes 60 minute)

L To the Mashiki Bus Stop
 - Route Number: No.20 • No.77 • No.120 (takes from 45 minute via Kokusai Street) Fare: ¥530
 Route Number: No.23 • No.29 • No.63(takes from 35 minute via Kumoji Street) Fare: ¥530
 Route Number: No.31 (takes from 50 minute via Kumoji Street) Fare: ¥530

Access from Naha International Air Port

E 50-70 minutes from Naha International Air Port (Bus Station No 3) to Okinawa Convention Center Bus Stop. Fare: ¥570
 Route Number: No.26 (50 minutes)
 Route Number: No.99(70 minutes)

E Airport Limousine Bus is easy accessible

*Additional note: This limousine liner is not to stop at the convention center, get off at Laguna Garden Hotel bus stop and walk to the center for 10 minutes.(takes from 55 minute) Fare: ¥600

E **Access by the monorail**(Asahibashi station and Furushima Station are easy accessible) - [See the route map and operation time table.](#)
 • About 11 minutes from the airport to Asahibashi station. Fare: ¥260. From Asahibashi station to the bus terminal station takes 3 minutes by walk.
 • About 21 minutes from the airport to Furushima station. Fare: ¥320. From Furushima station to the convention center takes 15 minutes by taxi.

Access form Nago Bus Terminal Station

E About 120 minutes from Nago Bus Terminal Station to Mashiki bus stop. Fare: ¥1,650 Route: No.20andNo.120

* Additional note: 1. The required time is defer according to the traffic situation.2. The operation of bus liner on Saturday, Sunday and public holidays are run in less number than on week days.

with your own vehicle/rental car

- Takes about 40 minute (14 km distance) from Naha Airport.
- Takes about 30 minute (10 km distance) from the center of Naha city.
- Takes about 90 minute (56 km distance) from the center of Nago city.

Required time may differ according to the traffic situation.

Information

[Okinawa Rental Car Association](#) TEL : 098-852-0725

Remainder for driving by a rental car

Some area have exclusive bus lanes, and they are not allowed for regular vehicle at morning and evening time on week days (These traffic restriction are not enforced on Saturday, Sunday and public holidays)



- The road where bus lane regulation is enforced (Okinawa Prefectural Police Department HP)

Direction from Okinawa Expressway (Exit from Nishihara IC takes 15 minute)

As you exit from the IC(Expy Gate 2), turn left and go straight for 500 meter on Route 330. Enter into left lane and go straight to Makiminat and traverse Route 58 then precede bypass. You can view the sea at left side. The main entrance is located adjacent to the yacht harbor of roadside.

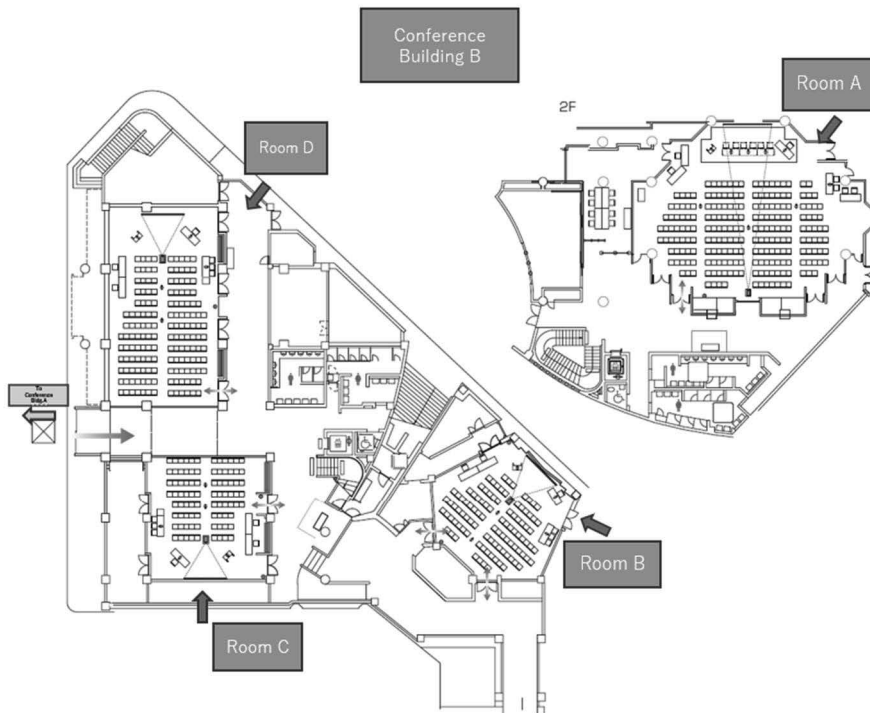
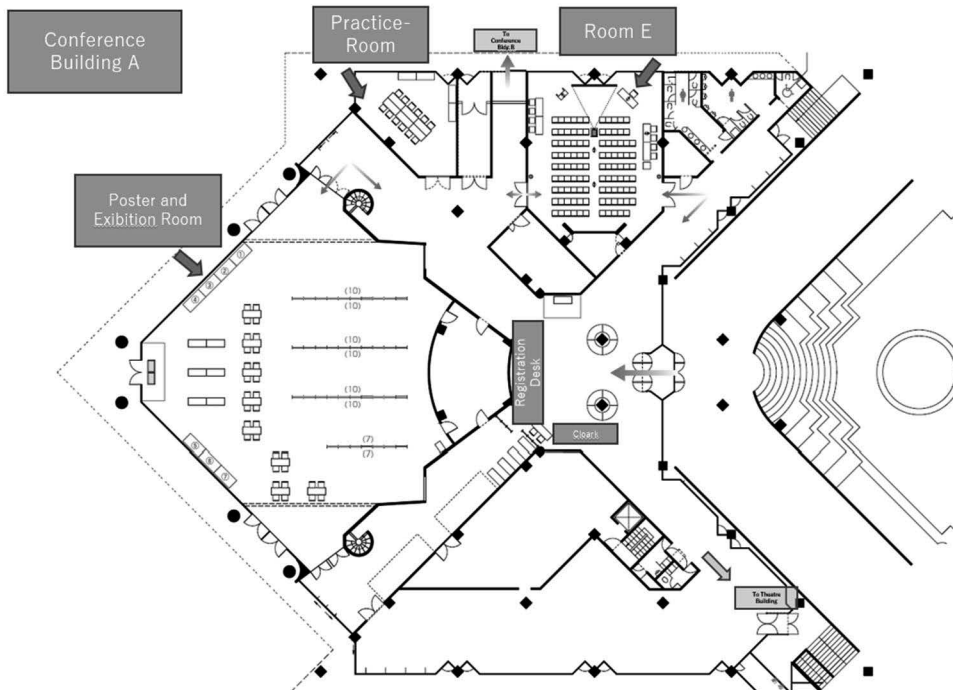
 [View Larger Map \(Google Maps\)](#) >>

Parking Information

The on-site free vehicle parking of the center is available, however, due to the space limited; please use the toll parking of Ginowan city municipal marina adjacent to the center at prim time of the event schedule. (par vehicle \300 daily)



Floor Map



Registration Fees:

	MSJ Regular Member	MSJ Corporate Member	MSJ Student Member	Regular (Non-member)	Student (Non-member)
Advance Registration	¥70,000	¥70,000	¥30,000	¥77,000	¥33,000
On Site Registration	¥100,000	¥100,000	¥50,000	¥110,000	¥55,000
Banquet	-	-	¥5,000	-	¥5,000

Instructions for presentation:

1. Oral presentation

Only LCD projectors will be provided. Authors are expected to bring their presentation on their own laptop computers along with a backup copy on a USB Drive in case of laptop failure.

- LCD projectors accept HDMI input only.
- It is important to stop at the Practice-Room before your scheduled presentation day and time to assure your presentation operates successfully in the onsite environment.
- The time allocated for the oral presentation speakers is including 4 minutes for discussion. The first bell will ring 3 min. before the finishing of your talk. The second bell will notice you the time to finish the talk. Please conclude your talk immediately, when the second bell has been rung.

	General presentation	Symposium / Invited presentation
time	10 min. talk + 4 min. discussion	30 min. (including 4 min. discussion)
1st bell	7 min.	3 min. before the finishing of talk
2nd bell	10 min.	the time finishing of talk
3rd bell	14 min.	the time finishing of discussion

2. Poster presentation

In order to foster deep, thorough discussions at ICAUMS2025, we will be implementing poster sessions.

Venue:

Conference Building A, Conference Room A1

Poster Display Schedule:

Session No.21pPS Presenters: April 21(Mon.), from 15:00 to 18:00

Posters can be set up from 13:00.

Core time: 15:00 to 16:00 & 17:00 to 18:00

Session No.22aPS Presenters: April 22(Tue.), from 9:00 to 12:00

Posters can be set up from 8:30.

Core time: 9:00 to 10:00 & 11:00 to 12:00

Session No.22pPS Presenters: April 22(Tue.), from 14:00 to 17:00

Posters can be set up from 13:00.

Core time: 14:00 to 15:00 & 16:00 to 17:00

Session No.23aPS Presenters: April 23(Wed.), from 10:30 to 13:30

Posters can be set up from 9:00.

Core time: 10:30 to 11:30 & 12:30 to 13:30

Session No.23pPS Presenters: April 23(Wed.), from 15:00 to 18:00

Posters can be set up from 14:00.

Core time: 15:00 to 16:00 & 17:00 to 18:00

Session No.24aPS Presenters: April 24(Thu.), from 10:30 to 13:30.

Posters can be set up from 9:00.

Core time: 10:30 to 11:30 & 12:30 to 13:30

* Please promptly remove your posters after the session has concluded.

Poster Specifications:

Posters should be within the dimensions of A0 (841 mm × 1189 mm, portrait orientation).

Display Materials:

The organizers will provide vinyl tape and thumbtacks for displaying posters.

Wireless LAN connection

You can use the free Wi-Fi at the conference venue; however, during peak usage times, the connection may become significantly slow. Therefore, we recommend using personal mobile Wi-Fi for a more reliable connectivity experience.

Corporate Exhibits

Date: April 21-24 (Mon.-Thu.), 2025

Venue: Conference Building A, Conference Room A1

Denshijiki Industry Co.,Ltd.

JEOL Ltd.

Hakuto Co., Ltd.

L.A.Systems Inc. / CIQTEK

NEOARK CORPORATION

Quantum Design Japan

Rigaku Corporation

TOYO Corporation

Notice for participants:

Audio and/or visual recording is prohibited.

The 7th International Conference of Asian Union of Magnetics Societies (IcAUMS2025) · Session Schedule

		April 21, 2025 (Mon)									
		9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00
		Registration 10:00-17:00									
Room A (B1)						Opening 13:30~14:30 (30m x 2)	Group Photo Coffee Break	S4 : "MRAM" 15:00~16:30 (30m x 3)			16:45~18:15 (30m x 3)
Room B (B2)						Coffee Break		Nuromorphic computing and related techniques 15:00~17:00 (30m x 2, 15m x 4)			Machine Learning for Magnetic Material Development 17:15~18:00 (15m x 3)
Room C (B3, 4)						Coffee Break		Spin caloritronics I 15:00~16:30 (30m x 2, 15m x 2)		Spin caloritronics II 16:45~17:45 (30m x 1, 15m x 2)	
Room D (B5, 6, 7)						Coffee Break		Hard magnetic materials I 15:00~16:15 (30m x 2, 15m x 1)		Hard magnetic materials II 16:30~18:00 (30m x 2, 15m x 2)	
Room E (A2)						Coffee Break					
Poster (A1)						Coffee Break		Poster session I : D, E, J (40) (Core time : 15:00~16:00 & 17:00~18:00)			Bierstube
Exhibition (A1)											

April 22, 2025 (Tue)		9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00		
		Registration 8:30-16:30											
Room A (B1)		S2 : "AI driven magnetics" 9:30~10:30 (30m x 2)			Coffee Break	11:00~12:00 (30m x 2)		S7 : "Recent developments of spintronics in a variety of symmetries" 13:30~15:00 (30m x 3)			Coffee Break	15:30~17:30 (30m x 4)	
Room B (B2)		Unconventional magnetic phenomena I 9:00~10:30 (30m x 2, 15m x 2)		Coffee Break	Unconventional magnetic phenomena II 10:45~12:45 (30m x 2, 15m x 4)			SOT switching I 13:30~15:15 (30m x 1, 15m x 5)		Coffee Break	SOT switching II 15:45~17:30 (15m x 7)		
Room C (B3, 4)		Coffee Break	MR effect 10:45~12:30 (30m x 2, 15m x 3)				Functional magnetic devices I 13:30~15:15 (30m x 1, 15m x 5)		Coffee Break	Functional magnetic devices II 15:45~17:30 (30m x 2, 15m x 3)			
Room D (B5, 6, 7)		S3 : "Recent trends in advanced molecular magnetism : bulk, nano to quantum nature" 9:00~10:30 (30m x 3)			Coffee Break	11:00~12:30 (30m x 3)		S5 : "Frontier research on soft magnetic materials and devices for power electronics applications" 13:30~15:00 (30m x 3)			Coffee Break	15:30~17:00 (30m x 3)	
Room E (A2)		Magnetic nanoparticles for biomedical application I 9:30~10:30 (15m x 4)		Coffee Break	Magnetic nanoparticles for biomedical application II 11:00~12:15 (15m x 5)			S10 : "Recent developments in medical applications of magnetics" 13:30~15:00 (30m x 3)			Coffee Break	15:30~17:00 (30m x 3)	
Poster (A1)		Poster session II : B, C (33) (Core time : 9:00~10:00 & 11:00~12:00)					Poster session III : F, K, L (23) (Core time : 14:00~15:00 & 16:00~17:00)						
Exhibition (A1)													
		Banquet LAGNA GARDEN 18:00~20:00											

April 23, 2025 (Wed)											
	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	
	Registration 8:30-16:30										
Room A (B1)	S1 : "Ultra-sensitive magnetic sensors operated at room temperature" 9:00~10:30 (30m x 3)		Coffee Break	11:00~12:30 (30m x 3)		Plenary talk II 13:30~14:30 (30m x 2)		Coffee Break	S8 : "Recent advances in spin-orbitronics" 15:00~16:30 (30m x 3)		16:45~18:15 (30m x 3)
Room B (B2)	Skyrmion I 9:00~10:30 (30m x 3)		Coffee Break	Skyrmion II 11:00~12:30 (15m x 6)		Coffee Break		THz spin dynamics 15:00~16:00 (30m x 1, 15m x 2)		Molecular magnetism 16:15~18:30 (30m x 3, 15m x 3)	
Room C (B3, 4)	Magnetic characterizations 9:00~10:15 (30m x 2, 15m x 1)		Coffee Break	Fundamental properties of magnetic materials I 10:45~12:30 (30m x 2, 15m x 3)		Coffee Break		Fundamental properties of magnetic materials II 15:00~17:00 (30m x 4)		Fundamental properties of magnetic materials III 17:15~18:45 (15m x 6)	
Room D (B5, 6, 7)	S6 : "Electric machines and their soft and hard magnetic materials" 9:00~10:30 (30m x 3)		Coffee Break	11:00~12:30 (30m x 3)		Coffee Break		Mortors 14:45~16:15 (30m x 2, 15m x 2)		Magnetic refrigeration 16:30~18:45 (30m x 3, 15m x 3)	
Room E (A2)	Magnetic recording 9:00~10:30 (30m x 1, 15m x 4)		Coffee Break	Interface-driven novel magnetic phenomena 10:45~12:30 (30m x 2, 15m x 3)		Coffee Break		Magnetic and magnetotransport properties in advanced thin films 15:00~17:00 (15m x 8)			
Poster (A1)	Poster session IV : A (42) (Core time : 10:30~11:30 & 12:30~13:30)						Poster session V : G(32) (Core time : 15:00~16:00 & 17:00~18:00)			Bierstube	
Exhibition (A1)											

April 24, 2025 (Thu)										
	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00
	Registration 8:30-13:00									
Room A (B1)	S9 : "Spin entropy and transport in magnetic materials and devices" 9:00~10:30 (30m x 3)		Coffee Break	11:00~12:30 (30m x 3)		Spin dynamics related phenomena 13:30~15:00 (30m x 1, 15m x 4)		Awards Ceremony & Closing Ceremony		
Room B (B2)	Unique magnetic phenomena in 2D magnetic layers 9:00~10:30 (30m x 2, 15m x 2)		Coffee Break	Novel magnetic materials 11:00~12:15 (30m x 2, 15m x 1)		2D magnetic materials and altermagnetism 13:30~15:00 (15m x 6)				
Room C (B3, 4)	Magnetic tunneling phenomena 9:00~9:45 (15m x 3)	Coffee Break	Soft magnetic materials 10:15~12:00 (30m x 2, 15m x 3)			Hard magnetic materials III 13:00~14:00 (15m x 4)	Ferrites : from fundamental to applications 14:15~15:15 (15m x 4)			
Room D (B5, 6, 7)	Advances In interplay between superconductivity and magnetism 9:00~10:45 (30m x 3, 15m x 1)		Coffee Break	Spin related phenomena in functional materials I 11:00~12:30 (30m x 2, 15m x 2)		Spin related phenomena in functional materials II 13:30~15:15 (30m x 2, 15m x 3)				
Room E (A2)	Strain-induced related phenomena 9:45~10:30 (15m x 3)		Coffee Break	Novel magnetic phenomena 11:00~12:00 (30m x 2)		Electrical manipulation of magnetic properties 13:00~14:30 (30m x 1, 15m x 4)				
Poster (A1)					Poster session VI : H, I (17) (Core time : 10:30~11:30 & 12:30~13:30)					
Exhibition (A1)										

PROGRAM

Apr. 21/Room A

Opening ceremony & AUMS award ceremony 13:00 ~ 13:30

Opening ceremony

Y. K. Kim (Korea Univ.)

AUMS award ceremony

Y. K. Kim (Korea Univ.)

Plenary talk I 13:30 ~ 14:30

Chair: S. Yuasa (AIST)

21PL-1 Invention of Nd-Fe-B sintered magnet and development of basic research

°M. Sagawa (Daido Steel)

21PL-2 Asian Magnetism Initiative

°K. Shin (DGIST)

Symposium "MRAM"

15:00 ~ 18:15

Chair: T. Ono (Kyoto Univ.)

21pA-1 [Invited] Challenges toward voltage-controlled MRAM

°S. Yuasa, T. Nozaki, T. Yamamoto, T. Nozaki, H. Nakayama, T. Ichinose, J. Kim, S. Tsunegi, K. Yakushiji, H. Kubota (AIST)

21pA-2 [Invited] Low-Power SOT-MRAM using MTJs with Strain-Induced Magnetic Anisotropy

°H. Yoda, T. Yoda, Y. Ohsawa, Y. Yamazaki, T. Yoda (YODA-S, Inc.)

21pA-3 [Invited] Spin-orbit torque switching of magnetic tunnel junctions for memory and compute applications

°K. Garello (Spintec)

21pA-4 [Invited] Spin-Transfer-Torque MRAM: the Next Revolution in Memory

°D. C. Worledge (IBM Research)

21pA-5 [Invited] Key Technologies of Scaling Embedded MRAM and Various Applications

°S. Ko, T. Lee, H. Jung, S. Han, Y. Song (Samsung)

21pA-6 [Plenary: AUMS Awardee] STT-MRAM: From Technology Breakthroughs to Products and Applications

°Y. Huai (Avalanche Technology Inc.)

Apr. 21/Room B

Nuromorphic computing and related techniques 15:00 ~ 17:00

Chair: Y. Igarashi (Univ. of Tsukuba), E. Xiao (NIMS)

21pB-1 [Invited] 2D Spintornics: Skyrmion and beyond

°Y. Wu (UF)

21pB-2 [Invited] Probabilistic computing with stochastic magnetic tunnel junctions

°S. Fukami (Tohoku Univ.)

21pB-3 Study on Neuromorphic Characteristics and Functionalities of Mn₃Sn-based Devices

°E. Lim, S. Lee, E. Jun, S. Kim (University of Ulsan)

21pB-4 Tailored Exchange Bias and Multilevel Magnetization Control in CoPt/FeMn SOT Devices for Neuromorphic Computing

°S. Lee, Y. Lin, Z. Wu, Y. Tseng (NYCU)

21pB-5 Enhancing spin selectivity in a quantum dot spin qubit using reservoir spin accumulation

°R. Jansen, W. Klich, A. Spiesser, S. Yuasa (AIST)

- 21pB-6 Assessing Insertion Impacts on STT-MRAM for Energy-Efficient CIM
 °Z. Wu¹, K. Chen², J. Wei², S. Sheu², T. Hou¹, Y. Tseng¹ (¹NYCU, ²ITRI)

Machine Learning for Magnetic Material Development 17:15 ~ 18:00

Chair: S. Fukami (Tohoku Univ.), Y. Wu (Univ. of Florida)

- 21pB-7 Dictionary Learning-Based Screening of Layered Materials via Interface Fermi Surface Matching
 Y. Mizutori¹, K. Simalaotao^{1,2}, Y. Shimazaki¹, Y. Miura^{2,3}, Y. Sakuraba^{1,2}, Y. Iwasaki², °Y. Igarashi^{1,2}
 (¹Univ. of Tsukuba, ²NIMS, ³Kyoto Inst. of Tech)
- 21pB-8 Comprehensive ab initio Stability Analysis of Heusler Compounds with Phonon Considerations for Enhanced Material Discovery
 °E. Xiao, T. Tadano (NIMS)
- 21pB-9 Feature Extraction Using Audio Dataset for Electric Motor Performance Classification
 °F. Mujaahid^{1,2}, M. F. Hsieh¹, T. Huda¹ (¹NCKU, ²UMY)

Apr. 21/Room C

Spin caloritronics I

15:00 ~ 16:30

Chair: J. Jeong (Chungnam National Univ.), Y. Sakuraba (NIMS)

- 21pC-1 [Invited] Electron orbital dynamics in solids
 °H. Lee (POSTECH)
- 21pC-2 [Invited] Magnon-drag thermoelectric transport in non-uniform spin structures
 °J. Ohe (Toho Univ.)
- 21pC-3 Figure of merit of transverse thermoelectric conversion for magnetic thin film measured by all-in-one evaluation method
 °T. Yamazaki¹, N. L. Okamoto¹, T. Ichitsubo¹, T. Seki^{1,2} (¹IMR, Tohoku Univ., ²CSIS, Tohoku Univ.)
- 21pC-4 Enhancement of thermal conductivity change induced by magneto-thermal resistance effect in Cu/CoFe multilayers
 °F. Makino^{1,2,3}, T. Hirai², T. Shiga⁴, H. Suto², H. Fujihisa⁴, K. Oyanagi³, S. Kobayashi³, T. Sasaki², T. Yagi⁴, K. Uchida^{1,2,5},
 Y. Sakuraba^{1,2} (¹Univ. of Tsukuba, ²NIMS, ³Iwate Univ., ⁴AIIST, ⁵Univ. of Tokyo)

Spin caloritronics II

16:45 ~ 17:45

Chair: H. Lee (POSTECH), T. Yamazaki (Tohoku Univ.)

- 21pC-5 [Invited] Spin Seebeck effect in nanostructure embedded magnetic insulator
 °J. Jeong¹, P. Cao Van¹, B. Park², S. Kim², S. Park³, H. Jin³ (¹Chungnam National University, ²KAIST, ³POSTECH)
- 21pC-6 Electric field control of anomalous Nernst effect in FePt thin films
 °S. Yoshida, B. Qiang, T. Miyamachi, M. Mizuguchi (Nagoya Univ.)
- 21pC-7 Advancement of anomalous Nernst heat flux sensor : new sensor structures for higher performance
 °Y. Sakuraba¹, W. Zhou¹, Y. Tabata², S. Inamura², K. Taguchi², M. Orito² (¹NIMS, ²SEMITEC)

Apr. 21/Room D

Hard magnetic materials I

15:00 ~ 16:15

Chair: Y. Hirayama (AIST), J. Yoo (KIMS)

- 21pD-1 [Invited] Coercivity Enhancement of Nd₂Fe₁₄B Magnets through Suppressing Pr-rich Shell Formation: Insights from Micromagnetic Simulations
 G. Kim^{1,3}, T. Kim², °K. Lee³ (¹School of Materials Science and Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan, Republic of Korea, ²Department of Magnetic Materials, Korea Institute of Materials Science (KIMS), Changwon, Republic of Korea, ³Graduate School of Semiconductor Materials and Devices Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan, Republic of Korea)
- 21pD-2 [Invited] Microstructure and magnetic properties of 2:17-type Sm-Co permanent magnets according to heat treatment conditions
 S. Park¹, G. Min¹, K. Bae², °T. Kim¹ (¹Chonnam National University, ²R&D Center of Star Group Co. Ltd)

- 21pD-3 A comparative study on shell formation and coercivity improvement of Pr-free and Pr-alloyed Nd-Fe-B sintered magnets during grain boundary diffusion process with low-melting Pr-Cu-Al-Ga alloy
^oS. Lee¹, G. Kim², K. S. Lee², S. Kim¹, T. H. Kim¹, S. H. Lee³, D. H. Kim³, J. G. Lee¹
 (¹Korea Institute of Materials Science, ²Ulsan National Institute of Science and Technology, ³Star Group Ind. Co., Ltd.)

Hard magnetic materials II

16:30 ~ 18:00

Chair: A. Yamashita (Nagasaki Univ.), S. Lee (Korea Institute of Materials Science)

- 21pD-4 [Invited] Advancements in Compositional and Processing Methods for ThMn₁₂-Type Permanent Magnetic Materials
^oJ. Park (Korea Institute of Materials Science)
- 21pD-5 Constituent phases and microstructural characteristics of anisotropic hot-deformed magnets produced by (Nd_{1-x}Ce_x)-Fe-B Hydrogenation-Disproportionation-Desorption-Recombination treated precursors
^oJ. Yoo, T. Kim, H. Cha, S. Kim, J. Lee (Korea Institute of Materials Science)
- 21pD-6 Fe-rich Sm-Fe-N anisotropic nanopowder prepared by induction thermal plasma process
^oY. Hirayama, P. Kwangjae, Z. Liu (AIST)
- 21pD-7 [Invited] Recent Progress and Future Prospects on Fe-based Magnetocaloric Compounds
^oA. Fujita (AIST)

Apr. 21/Poster Room

Poster session I

15:00 ~ 18:00

- 21pPS-1 Sensitive detection of non-linear spin wave using amplitude modulated RF magnetic field
^oS. Yamaguchi¹, S. Yakata², T. Kimura¹ (¹Kyushu Univ., ²Fukuoka Inst. Tech.)
- 21pPS-2 Threshold Power Reduction for Parametric Pumping in Perpendicular Standing Spin Wave Modes
^oS. Nezu, S. Kataoka, K. Kagawa, K. Sekiguchi (Yokohama National Univ.)
- 21pPS-3 Stability of Magnonic Soliton through Head-On Collision
^oT. Iwata, S. Nezu, K. Sekiguchi (Yokohama National Univ.)
- 21pPS-4 Non-Adiabatic Magnon Pumping in Single-Crystal Iron
^oS. Yokouchi, S. Nezu, K. Imamura, M. Ohtake, K. Sekiguchi (Yokohama National Univ.)
- 21pPS-5 Spin-Wave Channeling by Cubic Anisotropy
^oR. Iwami, K. Kagawa, S. Nezu, K. Imamura, M. Ohtake, K. Sekiguchi (Yokohama National Univ.)
- 21pPS-6 Spoken Digit Classification using Micro Spin-Wave Reservoir Chips
^oR. Yoshida, S. Nagase, S. Nezu, K. Sekiguchi (Yokohama National Univ.)
- 21pPS-7 Nonreciprocal spin wave excitation in Ni_xFe_{1-x} alloy induced by surface acoustic waves
^oS. Sakai¹, K. Yamanoi¹, Y. Nozaki^{1,2} (¹Keio Univ., ²CSRN Keio)
- 21pPS-8 Ultrastrong to nearly deep-strong magnon-magnon coupling with a high degree of freedom in synthetic antiferromagnets
^oY. Wang¹, F. Ma², G. Yu¹ (¹Institute of Physics CAS, ²Nanjing Normal University)
- 21pPS-9 Nonreciprocal magnon polaritons in magneto-chiral metamolecule
^oK. Mita¹, T. Kodama¹, T. Ueda², T. Nakanishi³, K. Sawada⁴, T. Chiba¹, S. Tomita¹
 (¹Tohoku Univ., ²Kyoto Inst. of Tech., ³Kyoto Univ., ⁴RIKEN)
- 21pPS-10 Structural design of surface acoustic wave resonators for enhanced magnon-phonon coupling
^oA. Nagao¹, K. Yamanoi¹, Y. Nozaki^{1,2} (¹Dept. of Phys., Keio Univ., ²CSRN, Keio Univ.)
- 21pPS-11 Magnon-phonon interaction mapping using high-overtone SAW devices in Co-based Heusler alloys
^oK. Yamanoi¹, S. Yamada², K. Hamaya², Y. Nozaki¹ (¹Keio Univ., ²Osaka Univ.)
- 21pPS-12 Magnetization-Referenced Current Injection Patterns for Reservoir Computing Using Spin Torque Oscillators
^oH. Kayama, S. J. Greaves (Tohoku Univ.)
- 21pPS-13 Phase recognition of topological spin-wave by machine learning
^oS. Kamakura, J. Ohe (Toho Univ.)

- 21pPS-14 Magnetization dynamics in GdFeCo ferrimagnet induced by inner-shell excitation using X-ray Free-Electron Laser
 °Y. Akiyama^{1,2}, R. Kobayashi^{1,2}, K. T. Yamada³, H. Yoshikawa⁴, K. Takemura^{1,2}, R. Obata⁵, A. Gocho^{2,5}, S. Sasakura^{2,5},
 K. Kaneshima⁵, T. Togashi⁶, Y. Kubota², A. Tsukamoto⁴, Y. Tanaka^{2,5}, M. Suzuki^{1,2}
 (¹Kwansei Gakuin Univ., ²RIKEN, ³Institute of Science Tokyo, ⁴Nihon Univ., ⁵Univ. Hyogo, ⁶JASRI)
- 21pPS-15 Néel Vector Rotation Driven by Spin-Orbit Torque in Amorphous Ferrimagnetic GdCo Thin Films
 °T. Mandokoro¹, Y. Shiota^{1,2}, T. Ito¹, H. Matsumoto¹, H. Narita¹, R. Hisatomi^{1,2}, S. Karube^{1,2}, T. Ono^{1,2} (¹ICR, ²CSR/N)
- 21pPS-16 Nonlinear linewidth behavior of the optic ferromagnetic resonance mode in Co/Ru/Co synthetic antiferromagnets
 °Y. Hisada, S. Komori, T. Taniyama (Nagoya Univ.)
- 21pPS-17 Anomalous ferromagnetic resonance linewidth broadening in Fe thin films
 °S. Baek¹, S. Komori¹, K. Imura², T. Taniyama¹ (¹Nagoya Univ., ²ILAS, Nagoya Univ.)
- 21pPS-18 Analysis of Substitutional Effects of Sn and Sb on Magnetocrystalline Anisotropy of MnBi at Finite Temperature
 °Y. Harashima^{1,2}, A. Nishida¹, Y. Morishita³, M. Matsui³, N. Umezawa, R. Umetsu⁴, Y. Shigeta⁵, H. Lim⁶, N. Kim⁶, S. Bae⁶,
 S. D. Roh⁶, S. Takasuka¹, T. Takayama^{1,2}, M. Fujii^{1,2,7} (¹NAIST, ²DSC, NAIST, ³LG Japan Lab inc., ⁴IMR, Tohoku Univ.,
⁵CCS, Univ. Tsukuba, ⁶LG Innotek Co., LTD, ⁷CMP, NAIST)
- 21pPS-19 Ferroaxial order-dependent circularly polarized Raman scattering in ilmenite NiTiO₃
 °G. Kusuno¹, T. Hayashida², T. Nagai², H. Watanabe², T. Kimura², T. Satoh^{1,3} (¹Science Tokyo, ²Univ. of Tokyo, ³IMS)
- 21pPS-20 Probing magnetic anisotropy in Cr-intercalated CrTe₂ layered transition metal halides: Spin-orbit torque method
 °Y. Tseng, B. Huang, Y. Tang (NCU)
- 21pPS-21 Contribution of lattice distortion and N addition to high uniaxial magnetic
 °C. Murakami, T. Hasegawa (Akita Univ.)
- 21pPS-22 Enhanced Stress Stability in Flexible Co/Pt Multilayers with Strong Perpendicular Magnetic Anisotropy
 M. Li, H. Yang, Y. Xie, °X. Bao, R. Li (NIMTE)
- 21pPS-23 Ab-initio study on correlation between magnetostriction and magnetic damping
 I. Kurniawan¹, K. Ito², T. Seki^{2,3}, K. Masuda¹, °Y. Miura^{1,4}
 (¹NIMS, ²IMR, Tohoku Univ., ³CSIS, Tohoku Univ., ⁴Kyoto Institute of Technology)
- 21pPS-24 Synthesis of the iron-based superconductor Sr₂Mg_{0.3}Ti_{0.7}FeAsO_{3-δ}
 °Y. Ueno, N. Azuma, M. Matoba, Y. Kamihara (Keio Univ.)
- 21pPS-25 Electrical transport properties of Co₂MnGa and Co₂MnSi bulk single crystals
 °G. Mimuro¹, T. Tanaka¹, T. Kubota¹, S. Kokado², R. Umetsu¹ (¹Tohoku Univ., ²Shizuoka Univ.)
- 21pPS-26 Phase control of the ground state parity in quantum dot Josephson junctions
 °S. Kobayashi^{1,2}, S. Matsuo^{1,3}, M. Spethmann⁴, P. Stano¹, D. Loss^{1,4}, T. Lindemann⁵, S. Gronin⁵, G. Gardner⁵, M. Manfra⁵,
 S. Tarucha¹ (¹RIKEN, ²Tokyo Univ. Sci., ³Tokyo Inst. Tech., ⁴Univ. of Basel, ⁵Purdue Univ.)
- 21pPS-27 Shapiro response of the Josephson diode derived from Andreev molecules
 °S. Matsuo^{1,2}, R. S. Deacon¹, S. Kobayashi^{1,3}, Y. Sato¹, T. Yokoyama⁴, T. Lindemann⁵, S. Gronin⁵, G. C. Gardner⁵,
 K. Ishibashi¹, M. J. Manfra⁵, S. Tarucha¹ (¹RIKEN, ²Tokyo Inst. Tech., ³Tokyo Univ. Sci., ⁴Osaka Univ., ⁵Purdue Univ.)
- 21pPS-28 Effect of Preparation Method on the Magnetic and Martensitic Transformation on Ferromagnetic MnCoGe
 °T. Tsunematsu¹, M. Onoue¹, Y. Mitsui¹, R. Umetsu², K. Koyama¹ (¹Kagoshima Univ., ²Tohoku Univ.)
- 21pPS-29 Cooling rate dependence of magnetostriction on melt-spun ribbons of Fe-Ga alloy and the rare earth elements doping
 °L. Chen, R. Y. Umetsu (Tohoku Univ.)
- 21pPS-30 Phase stability of Mn₃Ga with D0₂₂-type structure
 °D. Nobayashi, Y. Mitsui, M. Onoue, K. Koyama (Kagoshima Univ.)
- 21pPS-31 Shielding Frequency Control of Conformal NiFeCuMo/Cu Multilayer EMI Shield
 °A. Kikitsu, S. Shirotori (Toshiba)
- 21pPS-32 Directional-enhancement of magnetic resonance in soft magnetic CoNbZr films with uniaxial magnetic anisotropy
 °H. Kijima-Aoki, L. Tonthat, S. Yabukami (Tohoku Univ.)
- 21pPS-33 Development of nT meter applied by GSR sensor
 °M. Hikishima, S. Honkura, Y. Honkura (Magnedesign)
- 21pPS-34 Enhancement of anomalous Hall and Nernst effects in tetragonal distorted FeCo induced by the addition of V and N elements
 °A. K. Patel¹, C. Murakami², T. Nakatani¹, T. Hasegawa², Y. Sakuraba¹ (¹NIMS, ²Akita Univ.)

- 21pPS-35 Theoretical study on anomalous Hall sensors with the second-order uniaxial anisotropy
°H. Arai, H. Imamura (AIST)
- 21pPS-36 Investigation of harmonic components in thin film magnetoimpedance elements
°R. Chida, H. Kikuchi (Iwate Univ.)
- 21pPS-37 Thermal distribution in Joule heating of thin-film element and its effect on adjacent element
°S. Kawasaki, H. Kikuchi (Iwate Univ.)
- 21pPS-38 Study of an Arbitrary Waveform Magnetic Scale Based on Magnet Width Modulation Method
°A. Hotta, T. Musha (MITSUBISHI ELECTRIC CORPORATION)
- 21pPS-39 Feedback Cooling of High-Q Magnetically-Levitated Resonator for Ultraprecise Accelerometer
S. Tian¹, D. Kim¹, A. Hodges¹, G. Hermosa³, C. Padilla¹, P. Romagnoli¹, R. Lecamwasam¹, J. Downes², °J. Twamley¹
(¹OIST, ²Macquarie U, ³YuanZe U)
- 21pPS-40 Impact of manganese and lanthanum substitution on the structural, morphological, and magnetic properties of cobalt ferrite synthesized via co-precipitation for microwave absorption applications
°N. Prasetya¹, R. Rahmawati¹, S. Suharno², Y. Taryana³, R. Riyatun¹, U. Utari¹, N. Nuryani¹, B. Purnama¹ (¹Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Sebelas Maret, Surakarta 57126, Indonesia, ²Department of Physics Education, Faculty of Teacher Training and Education, Universitas Sebelas Maret, Surakarta 57126, Indonesia, ³Center for Research of electronic and telecommunication, Indonesia Institute of Sciences, Bandung 40135, Indonesia)

Apr. 22/Room A

Symposium "AI driven magnetics"

9:30 ~ 12:00

Chair: M. Kotsugi (Tokyo Univ. Sci)

- 22aA-1 [Invited] Representation of magnetic properties by a data-driven extended free energy model
°C. Mitsumata¹, A. Lira Foggiatto², M. Kotsugi² (¹Univ. of Tsukuba, ²Tokyo Univ. Sci.)
- 22aA-2 [Invited] Extended Free Energy Model: Automated Analysis of Magnetic Domain Structure
°M. Kotsugi (Tokyo Univ. Sci.)
- 22aA-3 [Invited] Autonomous materials search using simulation, robotics, and machine learning
°Y. Iwasaki (NIMS)
- 22aA-4 [Invited] Accelerating Magnetic Materials Discovery with Explainable AI Frameworks
°H. C. Dam^{1,2}, H. Kino³, T. Miyake⁴ (¹JAIST, ²Tohoku Univ., ³NIMS, ⁴AIST)

Symposium "Recent developments of spintronics in a variety of symmetries"

13:30 ~ 17:30

Chair: T. Moriyama (Nagoya Univ.)

- 22pA-1 [Invited] Manipulation of the altermagnetic order via crystal symmetry
°C. Song¹, Z. Zhou¹, X. Chen², J. Liu², F. Pan¹ (¹Tsinghua University, ²The Hong Kong University of Science and Technology)
- 22pA-2 [Invited] Spin-orbit torque devices for AI and quantum-inspired applications
°C. Pai (National Taiwan University)
- 22pA-3 [Invited] Generation of Large Spin Current during Magnetic Phase Transition of FeRh
T. Lee¹, M. Park², H. Ko¹, J. Oh¹, S. Ko¹, S. Hwang¹, J. Jang¹, G. Baek¹, S. Kim¹, H. Lee³, M. Jung², °K. Kim¹, K. Lee¹
(¹KAIST, ²Sogang University, ³POSTECH)
- 22pA-4 [AUMS Young Researcher Awardee] Handedness manipulation and electrical readout of propagating antiferromagnetic magnons
°Y. Shiota (Kyoto Univ.)
- 22pA-5 [Invited] Molecular vibration-driven spin polarization as a source of chirality-induced spin selectivity
°S. Miwa (Univ. of Tokyo)

- 22pA-6 [Invited] Photonic generation of electron orbital in ferromagnetic film probed by laser-induced magnetization dynamics measurement
 °S. Iihama¹, K. Nukui², K. Ishibashi², S. Mizukami² (¹Nagoya Univ., ²Tohoku Univ.)
- 22pA-7 [Plenary: AUMS Awardee] X-spintronics
 °T. Ono (Kyoto Univ.)

Apr. 22/Room B

Unconventional magnetic phenomena I

9:00 ~ 10:30

Chair: R. Toyama (NIMS), T. Zhu (IOPCAS)

- 22aB-1 [Invited] Topological Chiral Crystals for Orbitronics
 °D. Go (Johannes Gutenberg University Mainz)
- 22aB-2 [Invited] Highly efficient spin-charge conversion in ferromagnetic metal Fe / topological Dirac semimetal α -Sn heterostructures
 °L. D. Anh¹, M. Ishida¹, S. Fukuoka¹, T. Chiba², Y. Kota³ (¹Univ. of Tokyo, ²Tohoku Univ., ³NIT, Fukushima Coll.)
- 22aB-3 Growth of Highly Textured BiSb Topological Insulator on Si/SiO_x substrates for Spin-Orbit Torque Devices Using TiO_x/MgO Buffer Layers
 °W. Li¹, H. Ho Hoang¹, S. Takahashi², Y. Hirayama², Y. Kato², P. N. Hai¹ (¹Institute of Science Tokyo, ²Samsung Japan)
- 22aB-4 Anisotropic spin polarization induced by Fermi surface manipulation
 °S. Sugimoto¹, Y. Araki², J. Ieda², S. Kasai¹ (¹NIMS, ²JAEA)

Unconventional magnetic phenomena II

10:45 ~ 12:45

Chair: D. Go (JGU Mainz), S. Sugimoto (NIMS)

- 22aB-5 [AUMS Young Researcher Awardee] Exploring Anomalous Hall Effect in Rare-Earth Transition-Metal (RE-TM) Ferrimagnets for Spintronics Applications
 °R. Bhatt, L. Ye, T. Wu (YunTech Taiwan)
- 22aB-6 High-throughput material exploration system for the anomalous Hall effect using combinatorial experiments and machine learning
 °R. Toyama, Y. Iwasaki, P. D. Kulkarni, H. Suto, T. Nakatani, Y. Sakuraba (NIMS)
- 22aB-7 Compensation-Level Dependent Probabilistic Behavior in Stochastic Magnetic Tunnel Junction with Synthetic Antiferromagnetic Free Layer
 °T. Kinoshita, J. Yoon, N. Cacoilo, H. Kaneko, S. Kanai, H. Ohno, S. Fukami (Tohoku Univ.)
- 22aB-8 Altermagnetic RuO₂(101) thin films exhibiting a single variant
 °Z. Wen¹, C. He¹, J. Okabayashi², Y. Miura^{1,3}, T. Ohkubo¹, T. Seki⁴, H. Sukegawa¹, S. Mitani¹
 (¹NIMS, ²Univ. of Tokyo, ³KIT, ⁴Tohoku Univ.)
- 22aB-9 Polarized neutron reflectometry at CSNS and its application to the study of the magnetic thin films
 °T. Zhu (IOPCAS)
- 22aB-10 [Invited] Searching of Spin-triplet Superconductivity at High-Tc- Superconductor/Ferromagnetic-Oxide Interfaces
 °H. Chou^{1,2}, S. J. Sun^{1,2}, K. W. Hsueh¹, A. J. Grutter³, Z. Q. Su³, L. T. Chen¹, D. Cortie⁴, T. Y. Huang⁵, S. C. Weng⁵,
 Y. Y. Chin⁶, H. J. Lin⁵, J. W. Chiou^{1,2}
 (¹Sun Yat-sen Univ., ²Nat. Univ. Kaohsiung, ³NIST Center for Neutron Research, ⁴ANSTO, ⁵NSRRC, ⁶Chung Cheng Univ.)

SOT switching I

13:30 ~ 15:15

Chair: P. Nam Hai (Science Tokyo), Z. Wang (NIMTE,CAS)

- 22pB-1 [Invited] Dual SOT Switching Modes in a Single Device Geometry for Neuromorphic Computing
 °C. Lai (National Tsing Hua Univ.)
- 22pB-2 Current-induced spin-orbit torque magnetization switching in electrochemically deposited CoPt thin film
 °T. Huang¹, S. Isogami², T. Shirokura¹, M. M. Hasan³, M. Saito³, J. Uzuhashi², T. Ohkubo², S. Kasai², S. Nakagawa¹,
 Y. Takamura¹ (¹Science Tokyo, ²NIMS, ³Waseda Univ.)
- 22pB-3 Investigation of current induced magnetization switching in the SOT devices with low-Z elements
 °G. K. Shukla, P. Kumar, S. Isogami (NIMS)

- 22pB-4 Multilayered MXenes for future two-dimensional nonvolatile magnetic memories with ultrahigh integration
P. Kumar¹, Y. Miura^{1,2}, Y. Kotani³, A. Sumiyoshiya³, T. Nakamura^{3,4}, G. Shukla¹, °S. Isogami¹
(¹NIMS, ²Kyoto Inst. of Tech, ³NanoTerasu, ⁴Tohoku Univ.)
- 22pB-5 Impact of Nitrogen on magnetization switching in non-collinear antiferromagnetic Mn₃PtN compared to Mn₃Pt
°N. Tripathi¹, S. K. Mishra¹, S. Isogami² (¹IIT (BHU), ²NIMS)
- 22pB-6 Field-free perpendicular magnetic memory driven by out-of-plane spin-orbit torques
°S. Liang¹, A. Chen^{2,3}, L. Han¹, X. Zhang², C. Song¹ (¹Tsinghua University, ²KAUST, ³UESTC)

SOT switching II

15:45 ~ 17:30

Chair: S. Isogami (NIMS), C. Lai (National Tsing Hua Univ.)

- 22pB-7 Giant bulk spin-orbit torque driven spin Hall nano-oscillators using PtBi alloys
°U. Shashank¹, A. Kumar^{1,4}, T. Parvini², H. Heyen², M. Rajabali³, M. Munzenberg², J. Akerman^{1,4}
(¹University of Gothenburg, ²Universitat Grefswald, ³NanOsc AB, ⁴Tohoku Univ.)
- 22pB-8 Giant spin-orbit torque in a symmetry-enforced topological Dirac semimetal
X. Zheng¹, S. Peng¹, M. Radovic², R. Li¹, °Z. Wang¹ (¹NIMTE,CAS, ²PSI)
- 22pB-9 Role of Pt and Bi on the giant spin Hall effect in topological semimetal YPtBi
°S. Kagami¹, O. Fujie¹, D. Ito¹, Q. Le², B. York², C. Hwang², X. Liu², S. Le², M. Maeda³, T. Fan³, Y. Tao³, H. Takano³, P. N. Hai¹ (¹Department of Electrical and Electronic Engineering, Institute of Science Tokyo, ²Western Digital Inc., Great Oaks site, ³Western Digital Inc., Fujisawa site)
- 22pB-10 Doped BiSbX Topological Insulator For Spin-Orbit Torque Devices
°F. Tuo¹, Q. Le², B. R. York², C. Hwang², X. Liu², M. A. Gribelyuk², S. Le², L. Xu², J. James², J. Ortega², M. Maeda¹, Y. Tao¹, H. Takano¹, M. Liu³, R. Zhang³, S. Namba³, P. N. Hai³
(¹Western Digital Inc., Fujisawa Site, ²Western Digital Inc., Great Oaks Site, ³Tokyo Inst. Tech.)
- 22pB-11 Symmetry and conductivity modulation in SrRuO₃ for efficient orbital torque and field-free magnetization switching
°X. Zheng, S. Peng, R. Li, Z. Wang (NIMTE,CAS)
- 22pB-12 Spin Hall effect in Platinum deposited by atomic layer deposition for 3D spin-orbit torque devices
°P. N. Hai, K. Ishida, K. Sato (Ins. Sci. Tokyo)
- 22pB-13 Spin Orbit Torque in Gd/FeCo Multilayers with Layer Thickness Gradient
°R. Yabushita¹, D. Oshima¹, S. Takahashi², Y. Hirayama², Y. Kato², T. Kato¹ (¹Nagoya Univ., ²Samsung Japan)

Apr. 22/Room C

MR effect

10:45 ~ 12:30

Chair: A. Spiesser (AIST), H. Sukegawa (NIMS)

- 22aC-1 [Invited] Improvement in tunnel magnetoresistance of CoFeB-based magnetic tunnel junctions by MgO barrier interface modification
°H. Sukegawa, T. Scheike, J. Uzuhashi, Z. Wen, S. Kasai, T. Ohkubo, S. Mitani (NIMS)
- 22aC-2 [Invited] Competing magnetic exchange effects in FeRh/NiFe bilayers
°M. Jung (Sogang University)
- 22aC-3 Scaling of the Two-Terminal Magnetoresistance in Lateral Spin-Valve Devices
°A. M. Spiesser, R. Jansen, S. Yuasa (AIST)
- 22aC-4 Shape-dependent magnetoresistance of singular electrodeposited one-dimensional magnetic nanostructures
°K. Rogachev, M. Sobirov, T. Rakhmatullaev, I. Sapovsky, M. Bazrov, A. Samardak (FEFU)
- 22aC-5 Novel magnetoelectric properties in topological materials containing magnetic atoms
°Z. Y. Ma^{1,2}, W. Sun^{1,2}, W. G. Li^{1,2} (¹CAS Key Laboratory of Magnetic Materials and Devices, Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, ²University of Chinese Academy of Sciences)

Functional magnetic devices I

13:30 ~ 15:15

Chair: Y. Wu (NIMTE, CAS), S. Yabukami (Tohoku Univ.)

- 22pC-1 [Invited] Observation of optical vortex generation in magnon-induced Brillouin light scattering
°R. Hisatomi^{1,2,3}, A. Osada⁴, K. Taga¹, H. Komiyama¹, H. Narita^{1,3}, S. Karube^{1,2,3}, Y. Shiota^{1,2}, T. Ono^{1,2}
(¹Kyoto Univ., ²CSRN, ³PRESTO, ⁴IQB)

- 22pC-2 Exploring 3D Magnetic Sensing via Antiferromagnetic Order in Cox/Ptx Superlattices: Insights from Experiment and Simulation
 °A. Fathy¹, Y. Huang¹, V. Bhukya¹, C. Hu¹, L. Chang², P. Lin³, M. Lai³, Y. Tseng¹ (¹NYCU, ²ITRI, ³iSenteck)
- 22pC-3 Spin Hall sensor using topological insulator
 °M. Liu¹, R. Zhang¹, Q. Le², B. York², C. Hwang², X. Liu², M. Gribelyuk², X. Xu², S. Le², M. Maeda³, F. Tuo³, Y. Tao³,
 H. Takano³, P. N. Hai¹
 (¹Institute of Science Tokyo, ²Western Digital Inc., Great Oaks site, ³Western Digital Inc., Fujisawa site)
- 22pC-4 Analysis of Output Signals in Domain Wall Displacement GMR Sensors with CoFeB Free layers
 °K. Komuro, D. Oshima, T. Kato (Nagoya Univ.)
- 22pC-5 Detection of Green-Synthesized Magnetic Ferrofluid Nanotags Using Commercial Chip-based Giant Magnetoresistance Sensor
 °H. Ajrina¹, H. Ardiyanti^{1,2}, P. E. Swastika^{1,3}, N. I. Istiqomah¹, Z. Zurnansyah¹, L. Shifa¹, E. Suharyadi¹
 (¹Universitas Gadjah Mada, ²Institut Teknologi Sumatera, ³Universitas Negeri Yogyakarta)
- 22pC-6 Non-hysteretic tunnel magnetoresistive sensors using soft-pinning through noncollinear interlayer exchange coupling
 P. D. Kulkarni, °T. Nakatani (NIMS)

Functional magnetic devices II

15:45 ~ 17:30

Chair: R. Hisatomi (Kyoto Univ.), T. Nakatani (NIMS)

- 22pC-7 [Invited] Shape-modification of soft magnetic particles for electromagnetic wave absorption and thermal management
 °Y. Kwon, J. Jeong, B. Park, K. Kim, S. Yang (Korea Institute of Materials Science)
- 22pC-8 [Invited] Giant Magneto-Impedance effect in soft magnetic microwires: challenges, advances and perspectives.
 V. Zhukova¹, P. Corte-Leon², A. Gonzalez¹, °A. Zhukov³ (¹Univ. Basque Country, UPV/EHU, ²Univ. Cambridge and
 Basque Country, UPV/EHU, ³Univ. Basque Country, UPV/EHU and Ikerbasque)
- 22pC-9 High frequency magnetoelectric antenna excited by acoustic waves with large bandwidth
 °Y. M. Ma, C. Song, F. Pan (Tsinghua University)
- 22pC-10 High-frequency drive type thin film sensor using coplanar line with slit
 R. Suzuki, L. Tonthat, J. Honda, H. Kijima-Aoki, °S. Yabukami (Tohoku University)
- 22pC-11 Flexible Magnetic Pressure/Strain Sensors Based on GMI Effect
 °Y. Wu, S. Li, Y. Liu, R. Li (NIMTE,CAS)

Apr. 22/Room D

Symposium "Recent trends in advanced molecular magnetism: bulk, nano to quantum nature"

9:00 ~ 12:30

Chair: S. Hayami (Kumamoto Univ.)

- 22aD-1 [Invited] Spin Crossover System with Multifunction
 °S. Hayami (Kumamoto University)
- 22aD-2 [Invited] Molecular Spin Qubits toward Quantum Computer and High-Density Memory Devices Based on Molecular Magnets
 °M. Yamashita (Tohoku University)
- 22aD-3 [Invited] Quantum Computing with Molecules
 °M. Ruben (KITANO)
- 22aD-4 [Invited] Organometallic Single-Molecule Magnets Containing Radicals and Bismuth
 °S. Demir (Department of Chemistry, Michigan State University, East Lansing, Michigan 48824, USA)
- 22aD-5 [Invited] A molecular approach to 2D magnetic materials
 °E. Coronado (Valencia University)
- 22aD-6 [Invited] Light-Induced Magnetic and Dielectric switching in Spin Transition Molecular Materials
 °Y. Meng (Dalian University of Technology)

Symposium "Frontier research on soft magnetic materials and devices for power electronics applications"

13:30 ~ 17:00

Chair: S. Okamoto (Tohoku Univ.)

- 22pD-1 [AUMS Young Researcher Awardee] Deep supercooling solidification for high-performance soft magnetic alloys
°C. Wu, Q. Chen, K. Wang, X. Zhang, G. Liu, M. Yan (Zhejiang Univ.)
- 22pD-2 [Invited] Magnetic Losses in Soft Magnetic Materials up to Radiofrequencies: Experimental and Theoretical Approaches
°S. Dobak¹, C. Beatrice², F. Fiorillo², C. Ragusa³, V. Tsakaloudi⁴, J. Fuzer¹, P. Kollar¹ (¹Inst. of Physics, Fac. of Science, P. J. Safarik University, Kosice, 04154, Slovakia, ²Advanced Materials Metrology & Life Sciences Div., INRIM, Torino, 10135, Italy, ³Energy Dpt. 'G. Ferraris', Politecnico di Torino, Torino, 10129, Italy, ⁴Lab. of Inorganic Materials, CPERI, CERTH, Thessaloniki, 54124, Greece)
- 22pD-3 [Invited] Effect of additives on soft magnetic properties of Fe-B-based nanocrystalline alloys prepared by ultra-rapid annealing
°Z. Tang, K. Suzuki (Monash University)
- 22pD-4 [Invited] Study of domain wall dynamics in soft magnetic materials using magnetic Barkhausen noise measurements
°S. Tamaru¹, T. Yamazaki² (¹AIST, ²TUS)
- 22pD-5 [Invited] How to use soft magnetic materials from the power electronics designer
°H. Matsumori (Nagoya Inst. Tech.)
- 22pD-6 [Invited] Sustainable SMC material developments for automotive electrification
°Z. Ye, T. Hiroki (Ube Material Industry)

Apr. 22/Room E

Magnetic nanoparticles for biomedical application I 9:30 ~ 10:30

Chair: L. Subbiah (Anna Univ.), M. Takahashi (JAIST)

- 22aE-1 Smart PNIPAM/FeRh composite activated by magnetocaloric effect for biomedical applications
°A. Amirov (MISIS)
- 22aE-2 Optimization of B₁-field homogeneity in transcranial MR-guided focused ultrasound system based AutoML: A simulation study
°E. Lee¹, T. Nam¹, D. Hernandez², H. Kim², E. Ozhinsky³, K. Kim⁴, K. Kim^{1,2} (¹GAIHST, Gachon University, ²Neuroscience Research Institute, Gachon University, ³University of California, San Francisco, ⁴Kyung Hee University)
- 22aE-3 Advanced TMR Sensor-Based Magnetodes for High-Sensitivity Biomagnetic Field Detection
°J. Chen^{1,2,3}, J. Luo^{1,2}, Z. Xu^{1,2}, Y. Wang^{1,2}, Z. Jin^{1,2}, M. Wang^{1,2}, X. Cai^{1,2} (¹State Key Laboratory of Transducer Technology, Aerospace Information Research Institute, Chinese Academy of Sciences, ²School of Electronic, Electrical and Communication Engineering, University of Chinese Academy of Sciences, ³College of Materials Sciences and Opto-Electronic Technology, University of Chinese Academy of Sciences)
- 22aE-4 Estimating magnetometer position, orientation, and sensitivity at extended distance from the calibration coil array in a magnetically shielded room
°T. Fukui^{1,3}, T. Shibuya², Y. Adachi¹ (¹Kanazawa Inst. Tech., ²TDK, ³LibreFields)

Magnetic nanoparticles for biomedical application II 11:00 ~ 12:15

Chair: Y. Adachi (Kanazawa Inst. Tech.), J. Chen (Chinese Academy of Sciences)

- 22aE-5 Magnetic separation of lysosomes from cells with lysosome dysfunction using superparamagnetic-plasmonic hybrid nanoparticles
°M. Takahashi, T. S. Le, Y. Hiratsuka, K. Matsumura, S. Maenosono (JAIST)
- 22aE-6 Green Synthesis of CoFe₂O₄/C-dots Nanocomposites Utilizing Moringa Oleifera and Watermelon Peels for Enhanced Magnetic Hyperthermia
°S. F. Azzahro¹, A. Jiananda¹, D. A. Larasati¹, M. Y. Darmawan^{1,2}, E. K. Sari¹, N. I. Istiqomah¹, D. Oshima³, T. Kato^{3,4}, E. Suharyadi¹ (¹Department of Physics, Universitas Gadjah Mada, ²Department of Physics, Institut Teknologi Sumatera, ³Department of Electronics, Nagoya University, ⁴Institute of Materials and Systems for Sustainability, Nagoya University)

- 22aE-7 Estimation of 2-dimensional distribution of anisotropy energy and magnetization in easy-axes oriented magnetic nanoparticles
 °H. Goto¹, M. Futagawa¹, Y. Takemura², S. Ota¹ (¹Shizuoka Univ., ²Yokohama National Univ.)
- 22aE-8 Polyvinyl Alcohol-Based Ferrogel System for Sustained, Magnetic Field-Guided, Acid-Triggered Delivery of Omeprazole
 °L. Subbiah, S. Palanisamy, K. Nagarajan, M. Ramasamy Govindaraj (Anna University)
- 22aE-9 Synthesize of Magnetic-Biodegradable Periodic Mesoporous Organosilica Nanoparticles for Biomedical Applications
 °D. N. Mai^{1,2}, H. T. Nguyen^{1,2}, H. K. Ta^{1,2,3}, H. T. Lai^{1,2}, K. Matsumoto⁴, F. Tamanoi⁴, T. L. Doan^{1,2}, T. B. Phan^{1,2}
 (¹INOMAR, ²VNU-HCM, ³Univ. of Science, ⁴iCeMS, Kyoto Univ.)

Symposium "Recent developments in medical applications of magnetics"

13:30 ~ 17:00

Chair: Y. Takemura (Yokohama National Univ.)

- 22pE-1 [Invited] Selective destruction of cancer cells without affecting healthy cells by low frequency magneto-mechanical stimulation
 P. Obeid³, R. Morel², A. Visona^{1,2}, C. Naud², A. Nicolas¹, H. Joisten², X. Gidrol³, F. Berger⁴, °B. Dieny² (¹Univ. Grenoble Alpes, CNRS/LTM, Grenoble, France, ²Univ. Grenoble Alpes, CEA, CNRS, IRIG, SPINTEC, Grenoble, France, ³Univ. Grenoble Alpes, CEA, INSERM, IRIG, Biomics, Grenoble, France, ⁴Univ. Grenoble Alpes, INSERM/Brain Tech Lab, Grenoble, France)
- 22pE-2 [Invited] Magnetic Particle Imaging based Targeted Therapy of Brain Disorders
 °J. Yoon (Gwangju Institute of Science and Technology)
- 22pE-3 [Invited] Ultra-Fast and High-Power Nanoscale Heating Mechanism via Spin Precession in Magnetic Nanoparticles for Potential Biomedical Hyperthermia Applications
 °S. Kim (Seoul National University)
- 22pE-4 [Invited] Engineering Magnetic Nanoparticles for Targeted Brain Imaging : A Focus on Intranasal Administration of Tailored Nanoparticles
 °S. Seino, T. Nakagawa (Osaka Univ.)
- 22pE-5 [Invited] Design of human body sized magnetic particle imaging scanner
 °T. Yoshida, T. Sasayama (Kyushu Univ.)
- 22pE-6 [Invited] Magnetically Guided Effervescent Pantoprazole Tablets for Targeted Anti-Ulcer Therapy: Development and Optimization
 °S. Palanisamy¹, L. Subbiah¹, K. Nagarajan¹, Y. Takemura², S. Ota³ (¹Department of Pharmaceutical Technology, Centre for Excellence in Nanobio Translational Research, University College of Engineering, Bharathidasan Institute of Technology Campus, Anna University, Tiruchirappalli, Tamil Nadu, India. PIN-620024, ²Yokohama National University, Japan, ³Shizuoka University, Japan)

Apr. 22/Poster Room

Poster session II

9:00 ~ 12:00

- 22aPS-1 Strain regulation of skyrmions density on flexible substrates
 °R. Zou, H. Yang, Y. Xie, R. Li (NIMTE)
- 22aPS-2 Machine Learning Analysis of Temperature- and Frequency-Dependent Self-Organization Mechanisms in YIG Magnetic Domain Structures
 °R. Nagaoka¹, A. Lira Foggatto¹, T. Yamazaki¹, C. Mitsumata², M. Kotsugi¹ (¹Tokyo Univ. Sci., ²Univ. of Tsukuba)
- 22aPS-3 Growth of Co Thin Films with Low Roughness by ALD for 3D Magnetic Memory
 °Y. Hu, K. Sato, R. Zhang, K. Ishida, P. N. Hai (Tokyo Inst. Tech.)
- 22aPS-4 Magnetic and magneto-transport properties of non-collinear antiferromagnet Mn₃Ge epitaxial films
 °Y. Takeuchi¹, H. Sepehri-Amin², S. Sugimoto², T. Hiroto³, S. Kasai² (¹ICYS, NIMS, ²CMSM, NIMS, ³RNFS, NIMS)

- 22aPS-5 Magnetic and crystallographic properties of pulsed electrochemically deposited CoPt thin films
 °Y. Takamura¹, T. Huang¹, Y. Tanaka¹, M. Tanaka², M. Saito², P. Allongue³, J. Uzuhashi⁴, T. Ohkubo⁴, S. Kasai⁴, S. Nakagawa¹
 (°Science Tokyo, °Waseda Univ., °Ecole Polytechnique Palaiseau, °NIMS)
- 22aPS-6 Enhanced Stress Stability in Flexible Co/Pt Multilayers with Strong Perpendicular Magnetic Anisotropy
 M. Li, H. Yang, Y. Xie, °R. Li (NIMTE)
- 22aPS-7 Evaluation of crystal structure and magnetic properties in Cobalt thin films deposited on LiTaO₃ substrates
 °T. Abe¹, S. Shikano¹, K. Shimamura², H. Sugiyama², S. Ono³, M. Shima¹, K. Yamada¹
 (°Gifu Univ., °Kanazawa Univ., °Muroan Int. Univ.)
- 22aPS-8 Reduction of antiphase boundary density of spinel ferrite thin films by oxidation annealing
 °K. Takeo, H. Yanagihara (Univ. of Tsukuba)
- 22aPS-9 The transformation of the preferred orientation axis in ordered FePt alloy thin films on heat treatment
 °K. Daike, H. Yoshikawa, A. Tsukamoto (Nihon Univ.)
- 22aPS-10 Coherent harmonic generation of magnons in spin textures
 °G. Lan¹, K. Liu¹, Z. Wang², G. Liu¹, P. Yan², G. Yu¹ (°IOP, CAS, °UESTC)
- 22aPS-11 Asymmetry of domain walls motion in out of plane and in plane magnetic fields in Pd/Co/Pd epitaxial system
 °N. N. Chernousov, A. V. Davydenko, A. S. Pashenko, A. A. Turpak, A. G. Kozlov (Far Eastern Federal University)
- 22aPS-12 Anomalous increase of Gilbert damping in La_{0.5}Sr_{0.5}MnO₃ thin films induced by the emergence of antiferromagnetic phase
 °R. Arakawa, T. Onogi, S. Komori, T. Taniyama (Nagoya Univ.)
- 22aPS-13 Preparation of Al₂O₃ films applied to multi-layered magnetic films
 °F. Yamashita, R. Sankoda, A. Yamashita, T. Yanai, M. Nakano, H. Fukunaga (Nagasaki Univ.)
- 22aPS-14 Demonstration of non-collinear ferrimagnetism in (111)-oriented Mn₄N thin films by X-ray magnetic circular dichroism
 °A. Hatate¹, T. Yasuda¹, K. Amemiya², T. Suemasu¹ (°Univ. of Tsukuba, °KEK)
- 22aPS-15 Thinned Nd-Fe-B sintered magnets for donors in LIFT technique
 °R. Sankoda¹, K. Masuda¹, F. Yamashita¹, T. Motomura¹, A. Yamashita¹, T. Yanai¹, M. Nakano¹, T. Shinshi², H. Fukunaga¹
 (°Nagasaki Univ., °Institute of Science Tokyo)
- 22aPS-16 Crystal Growth and Phase Formation of Fe-N Epitaxial Thin Films on MgO(001) Substrates
 °K. Imamura¹, S. Isogami², M. Ohtake¹ (°Yokohama National Univ., °NIMS)
- 22aPS-17 Perpendicularly magnetized synthetic antiferromagnetic layers based on CoPd/Ru/CoPd(111) multilayers for magnetic tunnel junctions
 °K. B. Fathoni, T. Scheike, Z. Wen, S. Mitani, H. Sukegawa (NIMS)
- 22aPS-18 Indirect Exchange Interaction for Perpendicularly Magnetized CoFeB Layers through W Interlayer
 °X. Hou, K. Ito, V. K. Kushwaha, T. Yamazaki, T. Seki (Tohoku Univ.)
- 22aPS-19 Thermo-Magnetic Image of a Magnetic Wire Using a Laser Induced Electromotive Force
 °S. Sumi, M. Mohammadi, K. Tanabe, H. Awano (Toyota Tech. Inst.)
- 22aPS-20 Fabrication and analysis of Co-Pt multilayer nanowires prepared by dual-bath electrodeposition
 °R. Kawana¹, N. Ohguchi¹, M. Saito², T. Homma^{2,3}, T. Kato⁴, T. Ono⁵, M. Shima¹, K. Yamada¹ (°Gifu Univ., °Res. Org. for Nano and Life Innov. Waseda Univ., °Dept. of Appl. Chem. Waseda Univ., °Nagoya Univ., °ICR Kyoto Univ.)
- 22aPS-21 Effect of smooth transition from crystalline to amorphous phase on magnetic behavior of gradient Co-CoW nanowires
 °T. Rakhmatullaev, I. Sapovskii, M. Sobirov, K. Rogachev, N. Ilin, A. Samardak (FEFU)
- 22aPS-22 Crystalline/amorphous three-segmented Co/CoW nanowires: synthesis and magnetic properties
 °I. Sapovskii, T. Rakhmatullaev, M. Sobirov, K. Rogachev, N. Ilin, A. Samardak (FEFU)
- 22aPS-23 Exchange bias in ultrathin epitaxial Pd/Co/CoO films
 °E. V. Tarasov^{1,2}, A. F. Shishelov¹, I. A. Tkachenko², A. G. Kozlov¹ (°FEFU, °ICh FEB RAS)
- 22aPS-24 Enhancement of Hydrogen Evolution Reaction in Water Splitting with the Gadolinium doped Molybdenum Disulfide Magnetic Catalyst
 K. Tang, J. Wu, °C. Lee (NTHU)
- 22aPS-25 Non-linear Hall effect in graphene induced by strong orbital diamagnetism
 M. Wang¹, Y. Fan², H. Wu², °C. Chang^{1,3} (°Quantum information center, Chung Yuan Christian University, °School of Physics, Beijing Institute of Technology, °Department of Physics, National Taiwan University)
- 22aPS-26 Current-voltage characteristics in NiPS₃/Pt/Co multilayers
 °K. Tada, Y. Suzuki, T. Hattori, K. Hayashi, S. Iihama, T. Moriyama (Nagoya Univ.)

- 22aPS-27 Magnetic controlled spin qubit simulation in h-BN defect
°C. Lee, Y. Tang (National Central University)
- 22aPS-28 Effect of stacked granular buffer layer with carbon on nanostructure and magnetic properties of FePt granular films for heat assisted magnetic recording media
°D. Miyazaki¹, K. Tham¹, S. Saito² (¹TANAKA, ²Tohoku Univ.)
- 22aPS-29 Small grain size FePt granular films with co-addition of nitride and carbon as grain boundary materials for HAMR media
°K. Tham¹, D. Miyazaki¹, S. Saito² (¹TANAKA, ²Tohoku Univ.)
- 22aPS-30 Oscillation stability vs. applied field to STO for MAMR
°Y. Kanai¹, K. Tatsuno¹, S. J. Greaves² (¹Niigata Inst. Tech., ²Tohoku Univ.)
- 22aPS-31 A Study on Error Correction for Domain Wall Motion Memory
°Y. Nakamura, M. Nishikawa, Y. Okamoto (Ehime Univ.)
- 22aPS-32 Perpendicular magnetic anisotropy and microstructure of FePt (x-N, Ag, C) (x=B, Al) films
°J. Tsai, Y. Lin, M. Lin, C. Tsai, H. Huang (NCHU)
- 22aPS-33 Design and properties of HDL multilayered media with diffusion barrier for magnetic hologram memory
°Y. Nakamura, M. Okamoto, S. B. Chauhan, P. Lim (Toyoashi Univ. Tech.)

Poster session III

14:00 ~ 17:00

- 22pPS-1 Spin current in superconductors with structural chirality
°K. Hara, Y. Yanase (Kyoto Univ.)
- 22pPS-2 Superconducting lateral spin valve with Permalloy/Al transparent interface
S. Tsuboguchi, °R. Oshima, S. Kammoto, K. Yamada, T. Kimura (Kyushu Univ.)
- 22pPS-3 Signature of nonreciprocal magneto-transport in conventional superconducting films
°Y. Sawada¹, S. Obinata¹, R. Oshima¹, K. Ohnishi², T. Kimura¹ (¹Kyushu Univ., ²Kindai Univ.)
- 22pPS-4 High- T_c superconducting spin valves with multiple pair breaking effects
°T. Kikuta, S. Komori, K. Imura, T. Taniyama (Nagoya Univ.)
- 22pPS-5 Effect of highly off-stoichiometric deposition in epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ film
°Y. Chen¹, D. Qu^{1,2}, S. Huang³, J. G. Lin^{1,2} (¹Center for Condensed Matter Sciences, National Taiwan University, ²Center for Atomic Initiatives for New Materials, National Taiwan University, ³Department of Physics, National Taiwan University)
- 22pPS-6 Pt thickness dependence of superconductivity in Nb/V/Pt/Fe/Pt/V/Ta superlattices
°F. Tokoro¹, H. Narita¹, R. Kawarazaki¹, R. Iijima¹, R. Hisatomi^{1,2}, S. Karube^{1,2}, Y. Shiota^{1,2}, T. Ono^{1,2}
(¹ICR, Kyoto Univ., ²CSRN, Kyoto Univ.)
- 22pPS-7 Device Width Dependence of Superconducting Diode Effect in Nb/V/Ta Artificial Superlattice
°R. Iijima, R. Kawarazaki, F. Tokoro, R. Hisatomi, S. Karube, Y. Shiota, T. Ono (Kyoto Univ.)
- 22pPS-8 Effects of Quantum Geometry on Unconventional Superconductivity
°Y. Hirobe, T. Kitamura, Y. Yanase (Kyoto Univ.)
- 22pPS-9 Detection and Modulation of Surface-Acoustic-Wave-Driven Magnetization Dynamics
°C. Chen, F. Pan, C. Song (Tsinghua University)
- 22pPS-10 Understanding magnetoelectric coupling in type-II multiferroic $\text{Yb}_2\text{Cu}_2\text{O}_5$ by neutron diffraction
°P. Kusuma¹, C. H. Lee¹, C. W. Wang² (¹Department of Applied Physics, Tunghai University, Taichung 407224, Taiwan, ²National Synchrotron Radiation Research Center, Hsinchu 300092, Taiwan)
- 22pPS-11 Crystallographic, magnetic, and magneto-optical properties of Ga substituted single crystal yttrium iron garnet
°T. Satoh, Y. Miyazawa, S. Iwamoto, Y. Yang, S. Lee, X. Liu (Shinshu Univ.)
- 22pPS-12 Voltage controlled magnetic anisotropy effect in a magnetic tunnel junction with a crystalline $\text{MgO}/\text{ZrO}_2/\text{MgO}$ tunnel barrier
H. Onoda, °T. Nozaki, T. Nozaki, S. Yuasa (AIST)
- 22pPS-13 Voltage-controlled magnetization reversal of a 100-nm-thick magnetic layer characterized by micromagnetic simulation
°M. Kawana, N. Funabashi, K. Aoshima, K. Machida (NHK)

- 22pPS-14 Dual engineering of Co/MgO interface using ultrathin heavy metal insertion and post-oxidation for voltage-controlled magnetic anisotropy effect
 °H. Nakayama, T. Nozaki, T. Nozaki, S. Yuasa (AIST)
- 22pPS-15 In-situ LTEM Observation and Kinetics of Magnetic Skyrmion Crystal Formation from the Conical Phase
 C. Seol, S. Park, G. Min, S. Lee, Y. Lee, °T. Kim (Chonnam National University)
- 22pPS-16 Magnetic Domain Observation on Curvature Surface by Polarization Angle Detection Using 16-bit Polarization Camera
 °S. Meguro¹, S. Saito² (¹NEOARK, ²Tohoku Univ.)
- 22pPS-17 Evaluation of spin torque efficiency in composition-graded materials
 °M. Kawai¹, S. Takagi¹, H. Nakayama¹, K. Yamanoi¹, Y. Nozaki^{1,2}
 (¹Dept. of Phys., Keio University, ²Center for Spintronics Research Network, Keio University)
- 22pPS-18 Analysis of Curvature Effect of Yoke and Specimen on Barkhausen Noise Measurement
 °H. Chiba¹, H. Kikuchi¹, K. Matsumura² (¹Iwate Univ., ²Infitech.M)
- 22pPS-19 Effect of Yoke Material on Barkhausen noise of Curved Surface Specimens
 °H. Saito, H. Chiba, H. Kikuchi (Iwate Univ.)
- 22pPS-20 Iron loss measurement in high-frequency Large amplitude magnetic field
 °H. Tanaka, T. Mannen, T. Isobe, E. Kita, H. Yanagihara (Univ. of Tsukuba)
- 22pPS-21 Estimating parameters from magnetic domain images with different imaging scales using machine learning
 °S. Hashimoto¹, Y. Nakatani², H. Awano¹, K. Tanabe¹ (¹Toyota Tech. Inst., ²UEC)
- 22pPS-22 Evaluation of physical reservoir based on vortex spin torque oscillator with modified free layer
 °K. Horizumi¹, T. Chiba^{2,3}, T. Komine¹ (¹Ibaraki Univ., ²FRIS, ³Tohoku Univ.)
- 22pPS-23 Demonstration of image classification using 1-layer magneto-optical diffractive deep neural networks
 °H. Sakaguchi¹, T. Honma¹, S. Sumi², H. Awano², H. Nonaka³, F. Z. Chafi¹, T. Ishibashi¹
 (¹Nagaoka Univ. Tech., ²Toyota Tech. Inst., ³Aichi Inst. Tech.)

Apr. 23/Room A

Symposium "Ultra-sensitive magnetic sensors operated at room temperature"

9:00 ~ 12:30

Chair: M. Oogane (Tohoku Univ.)

- 23aA-1 [Invited] Ultra-sensitive tunnel magneto-resistive sensors
 °M. Oogane (Tohoku Univ.)
- 23aA-2 Withdrawn
- 23aA-3 [Invited] Fabrication and application of Flexible giant magnetoresistive elec-tronic skin
 °Z. Jin^{1,2}, C. Zhang¹, J. Chen^{1,2}
 (¹Aerospace Information Research Institute, Chinese Academy of Sciences, ²University of Chinese Academy of Sciences.)
- 23aA-4 [Invited] Toward Quantum Imaging of Bio-medical Systems based on Diamond NV Centers
 °D. Lee (Korea Univ.)
- 23aA-5 [Invited] Quantum sensing at nanoscale enabled by diamond spin qubits
 °F. Jelezko (Ulm University)
- 23aA-6 [Invited] Diamond magnetometer and magnetic nanoparticles for biomedical applications
 °A. Kuwahata (Tohoku Univ.)

Plenary talk II

13:30 ~ 14:30

Chair: M. Mizuguchi (Nagoya Univ.)

- 23PL-1 Magnetic Tunnel Junctions and Josephson junctions formed from 2D van der Waals layers
 °S. S. Parkin (Max Planck Institute of Microstructure Physics)
- 23PL-2 Using skyrmions for AI and using AI for skyrmion research
 °M. Kläui (Uni Mainz)

Symposium "Recent advances in spin-orbitronics"

15:00 ~ 18:15

Chair: S. Miwa (Univ. of Tokyo)

- 23pA-1 [Invited] Spin-Charge Interconversion in Topology Materials and Chiral Perovskites
°H. Yang (National University of Singapore)
- 23pA-2 [Invited] Giant Modulation of Longitudinal Magnetoresistance of the $\text{Fe}_{5-x}\text{GeTe}_2$ with In-Plane Bias
°S. Kim (University of Ulsan)
- 23pA-3 [Invited] Low-Power Electronics: Advancing SOT-MRAM and Low-Voltage Magnetoelectric Devices
°Y. Huang (National Yang Ming Chiao Tung University)
- 23pA-4 [Invited] Unconventional responses in non-collinear antiferromagnets
°J. Han, S. Fukami (Tohoku Univ.)
- 23pA-5 [Invited] Spin-torque diode effect in a noncollinear antiferromagnet $\text{Mn}_3\text{Sn}/\text{W}$ bilayer
°S. Sakamoto¹, T. Nomoto², T. Higo¹, Y. Hibino³, T. Yamamoto³, S. Tamaru³, Y. Kotani⁴, H. Kosaki¹, M. Shiga¹, D. Nishio-Hamane¹, T. Nakamura^{4,5}, T. Nozaki³, K. Yakushiji³, R. Arita^{1,6}, S. Nakatsuji¹, S. Miwa^{1,7}
(¹Univ. of Tokyo, ²Tokyo Metropolitan Univ., ³AIST, ⁴JASRI/SPring-8, ⁵Tohoku Univ., ⁶RIKEN, ⁷Johns Hopkins Univ.)
- 23pA-6 [Invited] Superparamagnetic Superparticles for Advanced Hyperthermia and Biodetection: Overcoming the Particle Size Limit
°M. Phan (Univ. of South Florida)

Apr. 23/Room B

Skymion I

9:00 ~ 10:30

Chair: B. Qiang (Nagoya Univ.), S. Yang (KRISS)

- 23aB-1 [AUMS Young Researcher Awardee] Emergence of Giant Magnetic Chirality during Dimensionality Crossover of Magnetic Materials
°D. Kim (Korea Institute of Science and Technology)
- 23aB-2 [Invited] Classical and Quantum Skymionics
°C. Hwang (KRISS)
- 23aB-3 [Invited] Metadynamics calculations of skymion stability
°J. Barker, I. Charalampidis (University of Leeds)

Skymion II

11:00 ~ 12:30

Chair: S. Kasai (NIMS), D. Kim (KIST)

- 23aB-4 Hardware Implementation of Homeostasis in Skymion-Based Neuron Devices
°S. Yang, K. Moon, C. Hwang (KRISS)
- 23aB-5 Topological Data Analysis for Configurational Properties in Skymion Lattice System: Persistent Homology
°M. Taniwaki¹, T. B. Winkler², J. Rothörl², R. Gruber², C. Mitsumata³, M. Kotsugi¹, M. Kläui²
(¹Tokyo Univ. Sci., ²JGU Mainz, ³Univ. of Tsukuba)
- 23aB-6 Colossal Topological Nernst effect by Skymions in the Filled β -Mn-type $\text{Fe}_{2-x}\text{Pd}_x\text{Mo}_3\text{N}$ Chiral Magnetic Epitaxial Thin Films
°B. Qiang, K. Yamamoto, H. Asano, T. Miyamachi, M. Mizuguchi (Nagoya University)
- 23aB-7 Nonlinear collective dynamics excited for room-temperature skymions
°S. Yadav¹, S. Chatterjee¹, S. Sugimoto², S. Kasai² (¹IIT(BHU) Varanasi, ²NIMS)
- 23aB-8 Higher Order Nonlinear Hall Effects in the Presence of Chiral Spin Textures
°T. Tasaki^{1,2}, T. Dohi¹, K. V. De Zoysa¹, K. Saijo^{1,2}, H. Ohno^{1,3,4,5}, S. Fukami^{1,2,3,4,5,6} (¹RIEC, Tohoku Univ., ²Graduate School of Engineering, Tohoku Univ., ³WPI-AIMR, Tohoku Univ., ⁴CSIS, Tohoku Univ., ⁵CIES, Tohoku Univ., ⁶Inamori Research Institute for Science)
- 23aB-9 Giant topological Hall effect induced by bulk Dzyaloshinskii-Moriya interaction in van der Waals $\text{Cr}_{1+\delta}\text{Te}_2$
°S. Rho¹, D. Jeong², H. Kim², J. Huh¹, H. Son¹, Y. Kwon², M. Cho¹ (¹Yonsei University, ²Kyung Hee University)

THz spin dynamics**15:00 ~ 16:00**

Chair: D. Kim (Chungbuk National Univ.), K. Nawa (Mie Univ.)

- 23pB-1 [Invited] Photoinduced THz Emission Dynamics in Ferromagnetic Multilayers
Y. Zhao^{1,2}, Q. Mustaghfiroh¹, A. Gayen¹, L. Huang^{1,3}, J. Shim⁴, H. Piao⁴, J. Kim⁵, H. Shin⁶, K. Kim¹, °D. Kim¹ (¹Chungbuk National University, ²Westlake University, ³Tsinghua University, ⁴Yanbian University, ⁵Kunsan National University, ⁶Pohang Accelerator Laboratory)
- 23pB-2 Antiferromagnetic spin pumping and spin transfer torque in α -Fe₂O₃/Pt
°T. Hattori¹, T. Moriyama¹, K. Kawagita², Y. Ishikawa², Y. Fujii², Y. Tatematsu², K. Hayashi¹, S. Iihama¹, K. Tada¹ (¹Nagoya Univ., ²Fukui Univ.)
- 23pB-3 Lattice-distortion effect on antiferromagnetic resonance frequency in NiO with Li substitution
°K. Nawa^{1,2}, S. Rhim³, K. Nakamura¹ (¹Mie Univ., ²NIMS, ³Univ. of Ulsan)

Molecular magnetism**16:15 ~ 18:30**

Chair: H. Miyasaka (Tohoku Univ.), N. Yoshioka (Keio Univ.)

- 23pB-4 [Invited] Towards deeper brain stimulation using magnetically induced electric fields
°M. Sekino, A. Iino, Z. Xin, M. Fushimi (Univ. of Tokyo)
- 23pB-5 [Invited] Chemo-Switchable MOF Magnets
°H. Miyasaka (Tohoku Univ.)
- 23pB-6 Magneto-structural correlation of stable nitroxyl radical derivatives with rigid cardo structure and substituent effect of ethynyl group
°M. Takii, Y. Miura, N. Yoshioka (Keio Univ.)
- 23pB-7 Switching Diamagnetism and Paramagnetism in Naphthalene Bisnitroxides
°R. Takano, R. Uesugi, D. Iida, T. Ishida (UEC)
- 23pB-8 Construction of indole nitronyl nitroxide self-assemblies exhibiting strong magnetic interactions and substituent effect
°N. Yoshioka, M. Takii, M. Kunimoto, R. Ohtaka, H. Masuda, Y. Hisatomi, H. Memida, Y. Miura (Keio Univ.)
- 23pB-9 [Invited] Investigation of Spin State of Magnetic Molecule in Tunneling Junction Combined with RF Signal
°T. Komeda (Tohoku Univ.)

Apr. 23/Room C**Magnetic characterizations****9:00 ~ 10:15**

Chair: V. Chahar (IIT Delhi), H. Koizumi (Tohoku Univ.)

- 23aC-1 [Invited] Advanced structural and magnetic characterization of compositionally complex systems with synchrotron X-rays
°A. Smekhova (HZB)
- 23aC-2 [Invited] Characterization of thin films and multilayers by Generalized Magneto-optical Ellipsometry
°A. Berger (CIC nanoGUNE)
- 23aC-3 Correlations between Defect Density and Magnetic Properties in Heusler Alloy Films
C. Leung¹, Y. Ling¹, H. Koizumi², E. Lesne³, C. Felser³, °A. Hirohata^{2,3} (¹City University of Hong Kong, ²Tohoku Univ., ³Max Planck Inst.)

Fundamental properties of magnetic materials I**10:45 ~ 12:30**

Chair: Y. Kamihara (Keio), D. Kriegner (ASCR)

- 23aC-4 [Invited] The influence of ZnO nanoparticle addition on the magnetic properties of conductive polymers based on poly-alkylthiophene
°L. Safriani¹, S. J. Eda¹, G. K. Kwando¹, S. Winarsih², Y. Maryati¹, M. A. Syakuur^{3,6}, A. Aprilia¹, U. Widayiswari⁴, D. P. Sari^{5,6}, T. Saragi¹, R. Risdiana¹ (¹Dept. of Physics, Univ. Padjadjaran, ²BRIN, ³Dept. of Chemistry, Univ. Padjadjaran, ⁴Dept. of Physics, Univ. Pendidikan Indonesia, ⁵Shibaura Inst. Tech., ⁶RIKEN)
- 23aC-5 [Invited] Perpendicular magnetic anisotropy induced by antiferromagnetic layers through antiferromagnetic proximity effects and long-range exchange coupling
°B. Wang¹, T. Li¹, F. Lin¹, Y. Huang¹, T. Chuang², D. Wei² (¹Department of Physics, National Changhua University of Education, ²National Synchrotron Radiation Research Center)

- 23aC-6 Magnetic and transport properties of ferrimagnetic chalcogenide compounds (Cr,Fe)Z (Z = S, Se)
 °W. Yin^{1,2}, M. Miyakawa¹, R. Y. Umetsu^{1,3} (¹Institute for Material Research, Tohoku University, ²Graduate School of Engineering, Tohoku University, ³Center for Science and Innovation in Spintronics, Tohoku University)
- 23aC-7 Construction of magnetic models from non-perturbative calculations
 °T. Tanaka, Y. Gohda (Science Tokyo)
- 23aC-8 Magneto-transport and magnetic property studies of rare-earth based intermetallic compound
 °V. Chahar¹, K. Manna¹, R. Umetsu², R. Chatterjee¹ (¹IIT Delhi, ²Tohoku Univ.)

Fundamental properties of magnetic materials II 15:00 ~ 17:00

Chair: T. Tanaka (Science Tokyo), B. Wang (National Changhua Univ. of Edu.)

- 23pC-1 [Invited] Altermagnetism and its manifestation in MnTe
 °D. Kriegner (Institute of Physics of ASCR)
- 23pC-2 [Invited] Novel superconducting properties in few-layer T_d -MoTe₂
 °T. Wakamura¹, M. Hashisaka², Y. Nomura³, M. Bard¹, S. Okazaki⁴, T. Sasagawa⁴, T. Taniguchi⁵, K. Watanabe⁵, K. Muraki¹, N. Kumada¹ (¹NTT, ²Univ. of Tokyo, ³Tohoku Univ., ⁴Tokyo Inst. Tech., ⁵NIMS)
- 23pC-3 [Invited] The crucial role of the spin state of cobalt in determining the magnetic properties of cobalt oxides
 °Y. Y. Chin¹, Z. Hu², H. J. Lin³, S. Agrestini², J. Weinen², C. Martin⁴, S. Hebert⁴, A. Maignan⁴, A. Tanaka⁵, J. C. Cezar⁶, N. B. Brookes⁶, Y. F. Liao³, K. D. Tsuei³, C. T. Chen³, D. I. Khomskii⁷, J. J. Li^{8,9}, X. X. Wang^{8,9}, K. Yamaura^{8,9}, L. H. Tjeng² (¹Department of Physics, National Chung Cheng University, ²Max Planck Institute for Chemical Physics of Solids, ³National Synchrotron Radiation Research Center, ⁴Laboratoire CRISMAT, Normandy University, ⁵Department of Quantum Matter, ADSM, Hiroshima University, ⁶European Synchrotron Radiation Facility, ⁷Institute of Physics II, University of Cologne, ⁸National Institute for Materials Science, ⁹Department of Chemistry, Hokkaido University)
- 23pC-4 [Invited] The Extraordinary Room Temperature Ferromagnetic Behavior in Gamma ray induced and Gd-Doped few-layered MoS₂ Thin Films Deposited via Magnetron Sputtering with Wafer Size
 °C. Lee, F. Hu, M. Wu, A. K. Anbalagan, C. Wang, W. Chan, H. T. Chen (NTHU)

Fundamental properties of magnetic materials III 17:15 ~ 18:45

Chair: Y. Chin (National Chung Cheng Univ.), T. Wakamura (NTT)

- 23pC-5 Withdrawn
- 23pC-6 Tc of a Copper-based high-Tc superconductor after heat treatments under hydrogen atmosphere
 H. Namita¹, H. Sato¹, M. Matoba¹, S. Iwasaki³, M. Fujioka³, Y. Hara², T. Harada², M. Miura², °Y. Kamihara¹ (¹Keio Univ., ²Seikei Univ., ³Hokkaido Univ.)
- 23pC-7 Intrinsic planar Hall effect and x-ray magnetic linear dichroism by Yafet-Kittel Structure in NiCo₂O₄ film
 °H. Koizumi¹, Y. Yamasaki², H. Yanagihara³ (¹Tohoku Univ., ²NIMS, ³Univ. of Tsukuba)
- 23pC-8 Magnetic and dielectric properties of β -NaFeO₂ single crystals
 °A. Nugroho¹, M. P. Akbar¹, R. Loke², P. Pupal³, M. Isobe³, B. Prijamboedi¹, J. Hemberger² (¹Institut Teknologi Bandung, ²University of Cologne, ³Max-Planck Inst. Stuttgart)
- 23pC-9 Neutron diffraction study of the Mn spin arrangement in Mn₂OBO₃
 °C. Lee, C. Lin, G. Chen (Department of Applied Physics, Tunghai University, Taichung 407224, Taiwan)
- 23pC-10 Interplay between structure and phase transition parameters in FeRh alloy
 °N. S. Perov¹, A. S. Komlev¹, T. A. Taaev², D. G. Merkel³, G. Z. Radnoczi⁴, A. Chirkova⁵ (¹Lomonosov Moscow State University, ²Amirkhanov Institute of Physics of the Dagestan, ³Wigner Research Centre for Physics, ⁴Centre for Energy Research, ⁵Hochschule Bielefeld University)

Apr. 23/Room D

Symposium "Electric machines and their soft and hard magnetic materials"

9:00 ~ 12:30

Chair: H. Kikuchi (Iwate Univ.)

- 23aD-1 [Invited, IEEE Mag. Soc. DL talk] AI-Assisted Reliable Fault Diagnosis in Permanent Magnet Synchronous Motors
°M. Hsieh (National Cheng Kung University)
- 23aD-2 [Invited] Development of a High-Torque IPMSM Using Sm-Fe-N Bonded Magnets
°Y. Yoshida¹, R. Yoshida², T. Uwano¹, S. Sakurai¹, M. Abe², S. Tada², M. Yamamoto², K. Tajima¹ (¹Akita Univ., ²NICHIA)
- 23aD-3 [Invited] Synthesis of high-performance Sm₂Fe₁₇N₃ powder with reduction-diffusion process
°S. Okada (AIST)
- 23aD-4 [Invited] The Status of SmFe₁₂-based Alloys: Employing Machine Learning for Optimization
°A. Bolyachkin¹, T. Subagja^{1,2}, N. Kulesh¹, X. Tang¹, T. Ohkubo¹, H. Sepehri-Amin^{1,2} (¹NIMS, ²Univ. of Tsukuba)
- 23aD-5 [Invited] Nanocrystalline Magnetic Materials & Components: Applications Roadmap for Advanced Power Electronic Systems
°B. R. Andapally (CBMM)
- 23aD-6 [Invited] Next-Generation Soft Magnetic Composites: Implications for Axial Flux Motors
°D. Azuma, K. Izumiya, Y. Enokizono, T. Saito, T. Ueno (Sumitomo Electric)

Motors

14:45 ~ 16:15

Chair: N. Kar (Univ. of Windsor), S. Sakurai (Akita Univ.)

- 23pD-1 [Invited] Application of Emerging Materials for Improved Electric Motor Performance
°N. Kar (Univ. Windsor)
- 23pD-2 [Invited] Magnetic Material Characteristics for Improving Performance of Permanent Magnet Motors
°J. Choi (Chungnam Nat'l Univ.)
- 23pD-3 Design and Analysis of Outer-Rotor PM Motor with Segmented rotor-shape for drone
°S. Sakurai, Y. Yoshida, K. Tajima (Akita Univ.)
- 23pD-4 An investigation on estimation error in AC loss of toroidal dust cores based on machine learning
°S. Matsumoto, S. Muroga, Y. Kodama, S. Ajia, Y. Endo (Tohoku Univ.)

Magnetic refrigeration

16:30 ~ 18:45

Chair: K. Matsumoto(Kanazawa Univ.), H. Mamiya (NIMS)

- 23pD-5 [Invited] Hydrogen liquefaction by active magnetic regenerative refrigeration
°K. Kamiya¹, K. Natsume¹, A. Uchida¹, T. Shirai¹, A. T. Saito¹, T. Numazawa¹, K. Matsumoto² (¹NIMS, ²Kanazawa Univ.)
- 23pD-6 [Invited] Magnetic, thermal, and transport properties of magnetocaloric materials for hydrogen liquefaction magnetic refrigerator
°K. Matsumoto¹, A. T. Saito², H. Kitazawa², T. Numazawa² (¹Kanazawa Univ., ²NIMS)
- 23pD-7 [Invited] Figure of Merit of Rare Earth Magnetocaloric Materials
T. Cheng¹, J. Chen¹, S. Fang², °Y. Tseng¹ (¹NYCU, ²ITRI)
- 23pD-8 Magnetic Refrigerant Particles for Hydrogen Liquefaction by Active Magnetic Regenerative Refrigeration
°A. T. Saito¹, H. Takeya¹, T. D. Yamamoto², K. Matsumoto³, H. Kitazawa¹, K. Kamiya¹, T. Numazawa¹
(¹NIMS, ²Tokyo University of Science, ³Kanazawa University)
- 23pD-9 High-throughput Evaluation of Magnetic Refrigerants using Multi-sample Neutron Transmission Spectroscopy
°H. Mamiya¹, N. Terada¹, S. R. Larsen¹, T. Shinohara², H. Sepehri-Amin¹ (¹NIMS, ²JAEA)
- 23pD-10 Caloric effect in Ni-Mn-Sn metamagnetic shape memory alloys
°W. Sun¹, H. Y. Qian¹, X. Lu¹, J. Liu², Z. J. Mo³, G. W. Li¹ (¹Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, ²School of Materials Science and Engineering, Shanghai University, ³Ganjiang Innovation Academy, Chinese Academy of Sciences)

Apr. 23/Room E

Magnetic recording

9:00 ~ 10:30

Chair: S. Greaves (Tohoku Univ.), K. Kankhunthod (King Mongkut's Inst. Tech. Ladkrabang)

- 23aE-1 [Invited] Microwave-assisted magnetic recording using a dual FGL STO with a soft magnetic layer
°S. Greaves¹, Y. Kanai² (¹Tohoku Univ., ²Niigata Inst. Tech.)
- 23aE-2 Double-Track PRML Detection for Two-Track Reading with a Wide-Track Reader in Shingled Magnetic Recording Systems
°A. Khametong¹, C. Warisarn¹, S. J. Greaves² (¹King Mongkut's Institute of Technology Ladkrabang, ²Tohoku Univ.)
- 23aE-3 Feasibility Study of Implementing Simple Dual-bit Detection in Dual-Layer Bit-Patterned Magnetic Recording Systems
R. Sriyapai¹, °N. Rueangnetr¹, C. Warisarn¹, S. J. Greaves²
(¹King Mongkut's Institute of Technology Ladkrabang, ²Tohoku Univ.)
- 23aE-4 Track Misregistration Prediction Scheme of Two-Track Reading with a Wide-Track Reader for Shingled Track Recording
°P. Kochcha, A. Khametong, K. Kankhunthod, C. Warisarn (King Mongkut's Institute of Technology Ladkrabang)
- 23aE-5 Proof-of-concept for selective magnetization switching by spin wave excitation
°V. K. Kushwaha, T. Yamazaki, T. Seki (Tohoku Univ.)

Interface-driven novel magnetic phenomena

10:45 ~ 12:30

Chair: S. Lee (Academia Sinica), Y. Niimi (Osaka Univ.)

- 23aE-6 [Invited] Anomalous Hall effect in magnetic proximity-induced topological insulator trilayers
°S. Lee¹, K. M. Chen², M. Hong³, R. J. Kwo² (¹Academia Sinica, Taiwan, ²NTHU, ³NTU)
- 23aE-7 Magnetic behavior of bisegmented Co/Ni jellyfish nanowires induced by different combinations of magnetocrystalline and shape anisotropy
°A. Samardak¹, M. Sobirov¹, K. Rogachev¹, N. Ognev¹, A. Ognev^{1,2}, A. Samardak^{1,2} (¹FEFU, ²SSU)
- 23aE-8 Comparative study of influence of shape and crystalline structure on magnetic properties and domain structure of Fe, Co and Ni nanowire arrays
°M. Sobirov, I. Sapovskii, T. Rakhmatullaev, K. Rogachev, N. Ilin, A. Samardak (Far Eastern Federal University)
- 23aE-9 Flexible Exchange-Biased Films with Superior Strain Stability
°H. Yang¹, X. Bao¹, Y. Xie¹, D. Makarov², R. Li¹ (¹NIMTE, CAS, ²HZDR)
- 23aE-10 [Invited] Observation of the crossover from quantum fluxoid to half-quantum fluxoid in a chiral superconducting device
°Y. Niimi (Osaka Univ.)

Magnetic and magnetotransport properties in advanced thin films

15:00 ~ 17:00

Chair: T. Yamada (Chiba Univ.), Y. Xie (Chinese Academy of Sciences)

- 23pE-1 Strain induced reversible sign change of the anomalous Hall effect in multilayers
°T. Morita¹, T. Koyama^{1,2,3,4}, D. Chiba^{1,2,3,5}
(¹SANKEN, Osaka Univ., ²CSRN, Osaka Univ., ³OTRI, Osaka Univ., ⁴PRESTO, JST, ⁵SRIS, Tohoku Univ.)
- 23pE-2 Tuning Robotic Motion of Molecular Magnet Array
°T. Yamada¹, P. Krueger¹, M. Horie² (¹Chiba Univ., ²Nat. Tsing Hua Univ.)
- 23pE-3 Effect of TMDs underlayer on spin-orbit effects in Pt/Co films
°A. G. Kozlov¹, F. Meng², Y. Feng², W. B. Li², T. Zhang², Z. Z. Namsaraev¹, M. A. Kuznetsova¹, A. F. Shishelov¹,
A. V. Prikhodchenko¹, M. A. Bazrov¹, M. E. Letushev¹, A. V. Davydenko¹, A. V. Ognev^{1,3}, L. I. Davydenko¹, Y. Wang²
(¹FEFU, ²DUT, ³SSU)
- 23pE-4 Spin-dependent transport properties in sputter-deposited ferromagnetic high-entropy alloy thin films.
°K. Z. Suzuki¹, K. Takanashi^{1,2} (¹JAEA, ²Tohoku Univ.)
- 23pE-5 Ultra-low damping in GdOx inserted magnetic stacks with large perpendicular magnetic anisotropy
°J. Kim¹, T. Nozaki¹, J. Uzuhashi², S. Tamaru¹, T. Ichinose¹, T. Ochiai¹, T. Yamamoto¹, T. Ohkubo², K. Yakushiji¹, S. Yuasa¹
(¹AIST, ²NIMS)
- 23pE-6 Growth temperature dependence of ferrimagnetic epitaxial Mn₂N on Pt/Fe/SrTiO₃(001)
°S. Akita¹, T. Yasuda¹, K. Amemiya², D. Ogawa³, T. Suemasu¹ (¹Univ. of Tsukuba, ²KEK, ³NIMS)

- 23pE-7 Magnetic compensation in $Mn_{4-x}Ag_xN$ epitaxial films at room temperature
^oY. Sobukawa¹, T. Yasuda¹, K. Toko¹, K. Amemiya², T. Suemasu¹ (¹Univ. of Tsukuba, ²KEK)
- 23pE-8 Stretchable spin-valve sensor array with stable giant magnetoresistance performance
^oY. L. Xie, H. L. Yang, R. W. Li (Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences)

Apr. 23/Poster Room

Poster session IV

10:30 ~ 13:30

- 23aPS-1 Interface engineering of topological BiSb/CoFeB heterostructures for efficient spin-charge conversion.
^oR. Mondal^{1,2}, Z. Wen¹, C. Murapaka², H. Sukegawa¹, Q. Le³, X. Liu³, B. York³, M. Maeda³, S. Mitani¹ (¹NIMS, ²IITH, ³WD)
- 23aPS-2 Current-induced magnetization switching using Si/Al compositional graded materials
^oS. Takagi, K. Yamanoi, Y. Nozaki (Keio Univ.)
- 23aPS-3 Spin-orbit torque engineering by Ti alloying in beta W-based heterostructures
^oD. Kim¹, J. Lee¹, Q. T. Nguyen², J. Lee¹, S. H. Rhim², Y. Kim¹ (¹korea university, ²University of Ulsan)
- 23aPS-4 Perpendicular magnetic tunnel junctions with β -W spin-orbit torque channels
^oS. Yoon¹, Z. Wen², S. Kasai², S. Mitani², H. Sukegawa², Y. Kim¹ (¹Korea Univ., ²NIMS)
- 23aPS-5 Precise quantification of spin-orbit torques in highly resistive Pt/Co multilayers
^oY. Jo, C. Yun, M. Kim, S. Yu, J. Park, J. Lee, W. Lee, A. Nam, K. Rhie, K. Lee (Korea University)
- 23aPS-6 Modulation of spin-orbit torque in Cu based heterostructures with oxide gating
^oM. Kim, C. Yun, J. Lee, S. Yu, Y. Jo, K. Lee, K. Rhie (Korea University)
- 23aPS-7 Current-induced domain wall motion in Gd-Fe wires with vertical composition gradient
^oJ. Mizuno, H. Awano, K. Tanabe (Toyota Tech. Inst.)
- 23aPS-8 Inductance and capacitance emerged from topological electromagnetism
^oY. Araki, J. Ieda (Japan Atomic Energy Agency)
- 23aPS-9 Current direction dependence of spin-orbit field in a crystalline ferromagnetic layer with perpendicular anisotropy
^oS. Park¹, K. Lee¹, S. Lee¹, X. Liu², M. Dobrowolska², J. K. Furdyna² (¹Korea University, ²University of Notre Dame)
- 23aPS-10 Fabrication of perpendicular magnetic anisotropic films on the side of uneven structures toward 3D devices
^oY. Yasuda¹, Y. Kurokawa², S. Sumi¹, H. Awano¹, K. Tanabe¹ (¹Toyota Tech. Inst., ²Kyushu Univ.)
- 23aPS-11 Unconventional scaling law of spin-orbital Hall effect in SrRuO₃ and efficient magnetization switching
^oS. Peng, X. Zheng, Z. Wang (Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences)
- 23aPS-12 Observation of writing and driving using spin-orbit torque writing for racetrack memory application
^oH. Hasegawa, Y. Kurokawa, H. Yuasa (Kyushu Univ.)
- 23aPS-13 Circularly polarized light-induced magnetic torque in Co alloy films
^oK. Nukui¹, S. Iihama², K. Ishibashi¹, S. Mizukami¹ (¹Tohoku Univ., ²Nagoya Univ.)
- 23aPS-14 Generation and detection of orbital current using Ni/heavy metal system
^oY. Furukawa, S. Obinata, T. Kimura (Kyushu Univ.)
- 23aPS-15 Magnetoresistance of (001), (110), and (111) textured RuO₂/Pt bilayer
^oS. Yoon¹, S. Ko², K. Kim², J. Jeong³, B. Park⁴, K. Eom¹, S. Lee¹ (¹Department of Semiconductor Engineering, Gachon University, Seongnam 13120, Korea, ²Department of Physics, KAIST, Daejeon 34141, Korea, ³Department of Materials Science and Engineering, Chungnam National University, Daejeon 34134, Korea, ⁴Department of Materials Science and Engineering, KAIST 34141, Daejeon, Korea)
- 23aPS-16 Magnetic tunnel junctions with metastable cubic GaN barriers
^oH. Kwon^{1,2}, K. Suzuki^{1,2}, K. Deepak², M. Tsujikawa³, R. Tufan^{3,4}, M. Shirai^{3,4}, S. Mizukami^{2,4} (¹Graduate School of Engineering, Tohoku University, ²WPI-Advanced Institute for Materials Research, Tohoku University, ³Research Institute of Electrical Communication, Tohoku University, ⁴Center for Science and Innovation in Spintronics, Tohoku University)
- 23aPS-17 Temperature-dependence of Anomalous Hall Effect in Al and Ta-seeded TbCo Gradient Structures
R. C. Bhatt, ^oL. Ye, M. Tsai, T. Wu (YunTech Taiwan)
- 23aPS-18 Accurate evaluation of spin relaxation in Bi-based Rashba interface using weak anti-localization effect
S. Kammoto, ^oM. Nakamoto, S. Tsuboguchi, K. Yamada, T. Kimura (Kyushu Univ.)

- 23aPS-19 Exploring Magnetization Switching and Extraordinary Hall Effect in Compositionally Graded GdFeCo Device
[◦]R. C. Bhatt¹, L. Ye¹, J. Lin¹, N. T. Hai², J. Wu², T. Wu¹ (¹YunTech Taiwan, ²NCUE Taiwan)
- 23aPS-20 Omnidirectionally stretchable spin-valve sensor array with stable giant magnetoresistance performance
[◦]L. Pan, Y. Xie, H. Yang, X. Bao, J. Chen, M. Zou, R. Li (Chinese Academy of Sciences)
- 23aPS-21 Simulating the spin dynamics of antiferromagnetic materials under electromagnetic waves
[◦]T. Mukita, S. Kishimoto, K. Nakagawa, S. Ohnuki (Nihon Univ.)
- 23aPS-22 Dependence of ferrimagnetic GdFe thickness on current induced domain wall velocity for Pt/GdFe wires
[◦]T. Tokuyama¹, T. Sakamoto¹, H. Tozuka¹, M. Tanaka¹, S. Honda², H. Awano³, K. Mibu¹
(¹Nagoya Inst. Tech., ²Kansai Univ., ³Toyota Tech. Inst.)
- 23aPS-23 Magnetotransport in Ru_{1-x}Cr_xO₂ film as a candidate of altermagnet
[◦]Y. Inaoka¹, S. Karube^{1,2,3}, H. Narita^{1,3}, R. Hisatomi^{1,2,3}, Y. Shiota^{1,2}, T. Ono^{1,2}
(¹ICR, Kyoto Univ., ²CSRN, Kyoto Univ., ³JST-PRESTO)
- 23aPS-24 CoTb alloy for ultrafast-demagnetization-driven spin current and orbital current
[◦]H. Lee, S. Kim (skku)
- 23aPS-25 Spin-to-Charge Convention via Inverse Altermagnetic Spin-Splitting Effect in RuO₂
C. Liao¹, [◦]Y. Wang¹, Y. Tien¹, S. Huang¹, D. Qu² (¹Department of Physics, National Taiwan University, Taipei, Taiwan,
²Center for Condensed Matter Sciences, National Taiwan University, Taipei, Taiwan)
- 23aPS-26 Characterization of spin transport through NiO in the vicinity of the Néel temperature
[◦]I. Sugiura¹, Y. Shiota^{1,2}, R. Hisatomi^{1,2}, S. Karube^{1,2}, T. Ono^{1,2}, T. Moriyama^{3,4}
(¹ICR, Kyoto Univ., ²CSRN, Kyoto Univ., ³Dept. of Materials Physics, Nagoya Univ., ⁴PRESTO, JST)
- 23aPS-27 Rashba effect and band structure change by metastable structuring of heavy metals at the interface
[◦]T. Yamazaki, Y. Kodani, R. Iimori, K. Yamada, T. Kimura (Kyushu Univ.)
- 23aPS-28 Spin-current excitation using ultrafast laser pulses in a heavy-metal/rare-earth iron garnet heterojunction
[◦]S. Takahashi¹, Y. You², K. Yamanoi², Y. Nozaki², T. Satoh¹, K. T. Yamada¹ (¹Science Tokyo, ²Keio Univ.)
- 23aPS-29 Thermal transport of angular momentum at the interface of insulative orbital ferrimagnet/non-magnet
[◦]T. Onuma, H. Yanagihara (Univ. of Tsukuba)
- 23aPS-30 Large Spin Nernst Effect in Ni₇₀Cu₃₀ Alloy
[◦]W. Li^{1,2}, C. Lin¹, G. Guo^{1,3}, S. Huang^{1,4}, D. Qu^{2,4} (¹Department of Physics, National Taiwan University, Taipei 10617,
Taiwan, ²Center for Condensed Matter Sciences, National Taiwan University, Taipei 10617, Taiwan, ³Physics Division,
National Center for Theoretical Sciences, Taipei 10617, Taiwan, ⁴Center of Atomic Initiatives for New Materials, National
Taiwan University, Taipei 10617, Taiwan)
- 23aPS-31 Method for measuring thermal conductivity in thin films using anomalous Nernst effect
[◦]K. Tanabe, H. Awano (Toyota Tech. Inst.)
- 23aPS-32 Influence of impurity doping on anomalous Nernst effect in amorphous GdCo alloys toward heat flux sensing
[◦]T. Koizumi, H. Imaeda, H. Awano, K. Tanabe (Toyota Tech. Inst.)
- 23aPS-33 Visualization of in-plane magnetization in a Co thin film via the laser-induced anomalous Nernst effect
[◦]S. Mochizuki¹, I. Sugiura², T. Ono², T. Satoh¹, K. T. Yamada¹ (¹Science Tokyo, ²Kyoto Univ.)
- 23aPS-34 Enhanced anomalous Nernst effect in Fe₄N films substituted by Pt and Pd atoms
[◦]K. Ito¹, H. Yu^{1,2}, T. Yamazaki¹, R. Y. Umetsu^{1,3}, T. Seki^{1,3}
(¹IMR, Tohoku Univ., ²Grad. Sch. Eng., Tohoku Univ., ³CSIS, Tohoku Univ.)
- 23aPS-35 Enhancement of anomalous Nernst coefficient in CoFe thin film by Cu-Ir addition
[◦]A. Ray^{1,2}, S. Biswas¹, P. Alagarsamy¹, R. Modak³, N. K. Gupta², T. Hirai², K. Uchida^{2,3}, Y. Sakuraba² (¹Indian Institute of
Technology Guwahati, Guwahati 781-039, India, ²National Institute for Materials Science, Tsukuba 305-0047, Japan, ³The
University of Tokyo, Kashiwa, Chiba 277-8561, Japan)
- 23aPS-36 3D heat flux sensor based on anomalous Nernst effect
[◦]H. Imaeda, R. Toida, T. Takeuchi, H. Awano, K. Tanabe (Toyota Tech. Inst.)
- 23aPS-37 The voltage-controlled magnetic anisotropy at the interface of Fe and NiO
[◦]S. Jung, H. Yanagihara (Univ. of Tsukuba)
- 23aPS-38 Topological Hall Transport and Skyrmion Nucleation in Co/Pd Multilayers
[◦]C. Chen¹, T. Huang¹, W. Tang¹, Y. Tang¹, S. Lamichhane², S. Liou², G. Chen³, S. Huang³, X. Fan⁴, J. Hong⁵
(¹National Central Univ., ²Univ. of Nebraska-Lincoln, ³National Taiwan Univ., ⁴Univ. of Denver, ⁵Tamkang Univ.)

- 23aPS-39 Withdrawn
- 23aPS-40 The Cu thickness dependence of orbital torques in Co/Cu/oxide multilayers
 °J. Lee, M. Kim, Y. Jo, S. Yu, J. Park, A. Nam, W. Lee, K. Rhie, K. Lee (Korea University)
- 23aPS-41 Quantum Geometry Induced Nonlinear Transport in Altermagnets RuO₂
 °R. Chu¹, L. Han¹, X. Fu², J. Liu², C. Song¹ (¹Tsinghua University, ²HKUST)
- 23aPS-42 Numerical analysis of dispersion relation and fabrication of magnetic dots in honeycomb Phononic crystals
 °Y. You, K. Yamanoi, Y. Nozaki (Keio Univ.)

Poster session V

15:00 ~ 18:00

- 23pPS-1 Higher permeability of nanogranular films using CoFe alloys by annealing
 °M. Naoe¹, M. Sato¹, M. Sonehara², K. Miyaji², T. Sato², N. Kobayashi¹ (¹DENJIKEN, ²Shinshu Univ.)
- 23pPS-2 Relationship between structural and magnetostrictive properties in flat Fe-Co single-crystal thin films
 °Y. Nakamura, M. Ohtake (Yokohama National Univ.)
- 23pPS-3 Phase-field simulation of liquid-phase sintering for investigating microstructural evolution of Nd-Fe-B sintered magnets
 °A. Ishii¹, T. Koyama^{1,2}, T. Abe¹, M. Ode¹ (¹NIMS, ²Nagoya Univ.)
- 23pPS-4 Fe and Mn substitution effects on structural and magnetic properties of FCC-type Fe₅₀Mn₂₅Ga₂₅
 °S. Kitahara¹, H. Okada¹, S. Awaji² (¹Tohoku Gakuin Univ., ²Tohoku Univ.)
- 23pPS-5 Influence of deposition rate on the structural and magnetic properties of anisotropic Nd-Fe-B film magnets by PLD method
 °A. Yamashita, M. Yamamoto, Y. Yamada, T. Yanai, M. Nakano, H. Fukunaga (Nagasaki Univ.)
- 23pPS-6 Effect of Two-Step Annealing on Hard Magnetic Properties of Fe-Pt Films prepared by Electroplating Method
 °A. Hamakawa, Y. Yamaguchi, A. Yamashita, T. Yanai, M. Nakano, H. Fukunaga (Nagasaki Univ.)
- 23pPS-7 Improving the thermal stability of Sm(Fe-Co)₁₂-B thin films by diffusion of Nb element
 °Y. Mori, S. Nakatsuka, M. Doi, T. Shima (Tohoku Gakuin Univ.)
- 23pPS-8 Magnetic properties and applications of glass-coated ferromagnetic microwires
 °V. Zhukova¹, P. Corte-Leon², M. Ipatov¹, J. Blanco⁴, A. Zhukov³ (¹Dept. Polym. Adv. Mater, Univ. Basque Country, UPV/EHU, ²Dept. Mater. Science & Metallurgy, Univ. Cambridge and Dept. Polym. Adv. Mater, Univ. Basque Country, UPV/EHU, ³Dept. Polym. Adv. Mater, Univ. Basque Country, UPV/EHU and Ikerbasque, ⁴Dept. Appl. Phys. I, EIG, Univ. Basque Country, UPV/EHU)
- 23pPS-9 High Frequency Magnetic Properties of Submicron-sized Fe-Co-B particles by Aqueous Solution Reduction Method
 °K. Sato, K. Wakabayashi, C. Masumoto, T. Miyazaki, S. Ajia, S. Muroga, Y. Endo (Tohoku Univ.)
- 23pPS-10 Accuracy Evaluation of AC Magnetization Process Measurements for Soft Magnetic Materials
 °R. Onodera¹, E. Kita², H. Yanagihara² (¹NIT, Ibaraki college, ²Univ. of Tsukuba)
- 23pPS-11 Annealing Experiments to Set the Optimal Heat Treatment Conditions for As-spun Fe-Co Ribbons
 °H. Choi-Yim, Y. Choi, H. Lee (Sookmyung Women's University)
- 23pPS-12 Withdrawn
- 23pPS-13 The effect of annealing temperature on the structure and magnetic properties of Fe-Si ribbons
 °T. Takasu¹, R. Umetsu¹, S. Mikami², T. Hiraki², S. Muroga¹, Y. Endo¹ (¹Tohoku Univ., ²Toho Zinc Co., Ltd)
- 23pPS-14 Preparation of Soft Magnetic Films using Solid/Liquid Hybrid Electroplating Method
 °M. Tashiro, K. Shiraki, A. Yamashita, T. Yanai, M. Nakano, H. Fukunaga (Nagasaki Univ.)
- 23pPS-15 A simulation method of magnetic properties of Fe-Ni bilayer ribbons under bending stress
 °S. Nakashima, R. Hirose, T. Yanai, A. Yamashita, M. Nakano, H. Fukunaga (Nagasaki Univ.)
- 23pPS-16 Improvement in magnetic properties of soft magnetic Ni and Co films electroplated in gel electrolytes
 °K. Shiraki, M. Tashiro, A. Yamashita, T. Yanai, M. Nakano, H. Fukunaga (Nagasaki Univ.)
- 23pPS-17 Enhancing Resistivity of Fe-(Cr, Si, B, Nb) Soft Magnetic Micron Particles by Surface Oxidation under Dry Air Atmosphere
 °A. Nishikura, S. Ohnishi, H. Nakashinden, M. Tobise, S. Saito (Tohoku Univ.)

- 23pPS-18 Micromagnetic simulation of the microstructure parameters influence on the realization of high coercivity state in hard-magnetic MnAl alloys
 °E. A. Smirnov, M. V. Gorshenkov (NUST MISIS)
- 23pPS-19 Effect of Cu content on the magnetic properties for SmCo₅ thin films fabricated on polyimide substrates
 °K. Murakata, S. Kudo, T. Shima, M. Doi (Tohoku Gakuin Univ.)
- 23pPS-20 Study of the magnetic field effect on the density of dysprosium ions
 °E. Ushijima^{1,3}, I. Yamamoto², M. Yamato¹ (¹Tokyo Metropolitan Univ., ²Yokohama National Univ., ³IMRA Japan Co., Ltd.)
- 23pPS-21 Coercivity of LIFT-made Nd-Fe-B micromagnets
 °G. Tahara, T. Amiya, H. Todoroki, K. Higashi, A. Yamashita, T. Yanai, M. Nakano, H. Fukunaga (Nagasaki Univ.)
- 23pPS-22 Effect of Short-Time Nd-Al Grain Boundary Diffusion on Coercivity of Isotropic Nd-Fe-B Magnet Films
 °S. Hattori, Y. Iwayama, A. Yamashita, M. Nakano, T. Yanai, H. Fukunaga (Nagasaki Univ.)
- 23pPS-23 Fe-Pt dotted film magnets prepared via LIFT technique
 °H. Todoroki¹, G. Tahara¹, K. Higashi¹, A. Yamashita¹, T. Yanai¹, M. Nakano¹, T. Shinshi², H. Fukunaga¹
 (¹Nagasaki Univ., ²Institute of Science Tokyo)
- 23pPS-24 Preparation of Fe-Pt/Pr-Fe-B/Fe-Pt three-layered thin sheet magnets
 °K. Okamura¹, K. Fujii¹, A. Yamashita¹, T. Yanai¹, M. Nakano¹, T. Shinshi², H. Fukunaga¹
 (¹Nagasaki Univ., ²Institute of Science Tokyo)
- 23pPS-25 Synthesis of high-purity Nd₂Fe₁₄B submicron particles via reduction-diffusion process for fabricating fine-grained sintered magnets
 °J. Kim¹, K. Yoon¹, H. Jeon¹, T. Kim², Y. Lee¹
 (¹Seoul National University of Science and Technology, ²Korea Institute of Materials Science)
- 23pPS-26 Fundamental investigation on LIFT-made Nd-Fe-B micromagnets
 °T. Amiya¹, G. Tahara¹, H. Todoroki¹, A. Yamashita¹, T. Yanai¹, M. Nakano¹, K. Koike², H. Fukunaga¹
 (¹Nagasaki Univ., ²Yamagata Univ.)
- 23pPS-27 Magneto-optical and magnetic properties of rapidly quenched amorphous NiCoSiFeB ribbons
 °N. N. Perova, S. V. Samchenko, T. B. Shapaeva, N. S. Perov, E. A. Ganshina (MSU)
- 23pPS-28 Investigation of the glass forming ability and thermal stability of the alloy Co₅₈Fe₅Ni₁₀Si₁₁B₁₆ depending on the spinning parameters
 °K. E. Pinchuk, V. S. Plotnikov, G. S. Kraynova, V. V. Tkachev, A. M. Frolov (Far Eastern Federal University)
- 23pPS-29 Magnetic parameters of amorphous alloys composed of transition metals (Fe, Co, Mn) and metalloids (Si, B) with varying compositions
 °I. Sapovskii, N. Ilin, T. Rakhmatullaev, G. Kraynova, V. Plotnikov, V. Tkachev (FEFU)
- 23pPS-30 Perpendicular magnetic field assisted electromagnetic vibration powered generators using amorphous Fe-B alloy ribbons
 °N. Isogai, S. Kamiya, Y. Nakamura, T. Kawai, M. Ohtake (Yokohama National Univ.)
- 23pPS-31 Synthesis of hexagonal W-type ferrite particles with SrZn_xFe_{18-x}O₂₇ composition using KBr flux
 °A. Hirata¹, K. Horie¹, M. Kishimoto¹, H. Yanagihara^{1,2} (¹Univ. of Tsukuba, ²TREMS)
- 23pPS-32 La-Co substituted strontium ferrite particles synthesized by heat treatment in molten potassium bromide flux
 °K. Horie, A. Hirata, M. Kishimoto, H. Yanagihara (Univ. of Tsukuba)

Apr. 24/Room A

Symposium "Spin entropy and transport in magnetic materials and devices"

9:00 ~ 12:30

Chair: G. Bauer (UCAS)

- 24aA-1 [Invited] Skyrmion Hall effect in altermagnets
 Z. Jin, Z. Zeng, Y. Cao, °P. Yan (UESTC)
- 24aA-2 [Invited] Magnetic domain lithography and its applications in spintronic devices
 °G. Yu (Institute of Physics, Chinese Academy of Sciences)
- 24aA-3 [Invited] Modulation of Thermal Spin Pumping by Angular Momentum of Rare Earth
 °A. B. Cahaya (Univ. Indonesia)

- 24aA-4 [Invited] Hybrid transverse magneto-thermoelectric conversion in artificially tilted multilayers
°T. Hirai (NIMS)
- 24aA-5 [Invited] Effective generation of probabilistic bits by exploiting spin-orbit torques in magnetic trilayers
°B. Park¹, S. Kim¹, M. Kohda², J. Nitta², K. Lee¹ (¹Korea Advanced Institute of Science and Technology, ²Tohoku University)
- 24aA-6 [Invited] Entropy transport in magnets and ferroelectrics
°G. Bauer (UCAS, Tohoku Univ.)

Spin dynamics related phenomena

13:30 ~ 15:00

Chair: S. Mangin (Univ. de Lorraine), K. Yamada (Science Tokyo)

- 24pA-1 [Invited] ULTRA-FAST ALL OPTICAL SWITCHING IN SPINTRONIC DEVICES
J. Gorchon, T. Hauet, M. Hehn, J. Hohlfeld, J. Lin, G. Malinowski, °S. Mangin (Univ. de Lorraine)
- 24pA-2 Nonlinear microwave scattering by permeability time-varying metamaterials
°T. Kodama¹, T. Chiba¹, N. Kikuchi², S. Okamoto¹, S. Ohno¹, S. Tomita¹ (¹Tohoku Univ., ²Akita Univ.)
- 24pA-3 All-optical helicity-dependent switching in magneto-plasmonic nanostructures
°Y. Le Guen^{1,2}, J. Hohlfeld¹, M. Hehn¹, S. Mangin¹, S. Van Dijken² (¹IJL, ²Aalto)
- 24pA-4 Ultrafast excitation of standing and propagating exchange spin waves in nanophotonic structures
°V. I. Belotelov, D. M. Krichevsky, S. I. Lutsenko, A. E. Bezmenova (Moscow State Univ.)
- 24pA-5 Ultrafast spin dynamics induced by circularly polarized hard x-ray pulses in a Pt/Co/Pt multilayer
°K. T. Yamada¹, R. Kobayashi², I. Sugiura³, Y. Kubota^{4,5}, Y. Akiyama^{2,4}, S. Sasakura⁶, A. Gocho⁶, K. Takemura^{2,4}, S. Mochizuki¹, S. Takahashi¹, T. Ohkochi^{4,5,6}, I. Matsuda⁷, T. Ono^{3,8}, T. Togashi^{4,5}, Y. Tanaka⁶, M. Suzuki^{2,4} (¹Science Tokyo, ²Kwansei Gakuin, ³ICR, Kyoto Univ., ⁴RIKEN, ⁵JASRI/SPring-8, ⁶Univ. Hyogo, ⁷ISSP, Univ. of Tokyo, ⁸CSRN, Kyoto Univ.)

Awards Ceremony & Closing Ceremony

15:30 ~ 16:30

MIGAKU Award ceremony
Closing remark

J.R. Jeong (Chungnam National Univ.)

Apr. 24/Room B

Unique magnetic phenomena in 2D magnetic layers 9:00 ~ 10:30

Chair: T. Miyamachi (Nagoya Univ.), W. Wulf (KIT)

- 24aB-1 [Invited] Phasons and magnon-polarons in 2D magnetic layers
°W. Wulfhekel (KIT)
- 24aB-2 Withdrawn
- 24aB-3 Modulation of the size of magnetic skyrmions in a van der Waals ferromagnet Fe₃GaTe₂ via proton irradiation
°Y. Ji¹, S. Yang², H. Ahn³, K. Moon², M. Im⁴, J. Lee⁵, S. Park⁵, C. Lee³, K. Kim¹, C. Hwang² (¹Korea Advanced Institute of Science and Technology, ²Korea Research Institute of Standards and Science, ³Sungkyunkwan University, ⁴Lawrence Berkeley National Laboratory, ⁵Korea Basic Science Institute)
- 24aB-4 Hall voltage distributions in two-dimensional materials
°K. Kim^{1,2}, T. Park², K. Kim³, S. Kim¹ (¹University of Ulsan, ²KIST, ³Yonsei University)

Novel magnetic materials

11:00 ~ 12:15

Chair: T. Ideue (Univ. of Tokyo), J. Huang(NCKU)

- 24aB-5 [Invited] Nonlinear optical responses in symmetry-controlled two-dimensional van der Waals magnets
°T. Ideue (Univ. of Tokyo)
- 24aB-6 [Invited] Magnetism in biomass - derived graphenic carbon
°D. Darminto¹, R. Asih¹, F. Astuti¹, M. A. Baqiya¹, D. Ristiyani¹, A. J. Nenohai¹, D. P. Sari², H. Nakajima³, Y. Koike⁴, I. Watanabe⁵ (¹Institut Teknologi Sepuluh Nopember, ²Shibaura Institute of Technology, ³Synchrotron Light Research Institute, ⁴Tohoku University, ⁵RIKEN Nishina Center)
- 24aB-7 Enhanced field-free current-induced magnetization switching by two-dimensional metastable MXene
°P. Kumar¹, H. Abe², S. Isogami¹ (¹NIMS, ²KEK)

2D magnetic materials and altermagnetism**13:30 ~ 15:00**

Chair: J. Okabayashi (Univ. of Tokyo), S. Ahn (POSTEC)

- 24pB-1 Effect of thermal magnetization fluctuation on geometrically constrained magnetic domain wall at the ferromagnetic nanowire
°S. Ahn (POSTECH)
- 24pB-2 Large MCD and strong spin polarization in nanoscale Cr₂Te₃
T. Huang¹, °J. A. Huang¹, H. Hsu², H. Wu¹, T. Chang¹ (¹NCKU, ²NPTU)
- 24pB-3 Atomic-scale magnetic doping of monolayer stanene by revealing Kondo effect from self-assembled spin entities
°N. Kumar¹, Y. Lan¹, Y. Lin¹, C. Chen¹, T. Lin¹, H. Jeng^{1,2,3,4}, P. Chang¹, P. Hsu^{1,2} (¹Department of Physics, National Tsing Hua University, Hsinchu 300044, Taiwan, ²Center for Quantum Technology, National Tsing Hua University, Hsinchu 300044, Taiwan, ³Physics Division, National Center for Theoretical Sciences, Taipei 10617, Taiwan, ⁴Institute of Physics, Academia Sinica, Taipei 11529, Taiwan)
- 24pB-4 giant spin seebeck and piezoelectricity of 2D V₂SeTeO altermagnet
D. Besserga, A. Ullah, °J. Hong (Pukyong National University)
- 24pB-5 Visualizing Strain-Induced Noncollinear Spin Textures in Mn Atomic Bilayer on Ag(111)
°C. Chen¹, T. Drevelow², Y. Lin¹, Y. Chen¹, T. Cheng¹, Y. Lin¹, S. Heinze², P. Hsu¹
(¹Natioanl Tsing Hua University, ²University of Kiel)
- 24pB-6 Detecting Altermagnetism in RuO₂ by Angular-Dependent X-ray Magnetic Linear Dichroism
°J. Okabayashi¹, Z. Wen², Y. Miura³, H. Sukegawa², S. Mitani² (¹Univ. Tokyo, ²NIMS, ³Kyoto Tech.)

Apr. 24/Room C**Magnetic tunneling phenomena****9:00 ~ 9:45**

Chair: G. Mihajlovic (Western Digital), M. Oogane (Tohoku Univ.)

- 24aC-1 Spin transfer torque switching in double magnetic tunnel junctions based on dual MgO layers
°G. Mihajlovic, W. Jung, R. Chopdekar, J. Lille, M. K. Gorbis (Western Digital Corporation)
- 24aC-2 Structural stability and perpendicular magnetocrystalline anisotropy in Co layers on buckled and planar h-BN structures
°D. P. Hastuti, Y. Kitaoka, H. Imamura (AIST)
- 24aC-3 Theoretical study on the effect of shape anisotropy on switching voltage of voltage-controlled MRAM
°S. Miyazaki^{1,2}, H. Arai², H. Imamura^{1,2}, Y. Yasukawa¹ (¹Chiba Inst Tech, ²AIST)

Soft magnetic materials**10:15 ~ 12:00**

Chair: J. Jeong (Korea Institute of Materials Science), Y. Tomita (Daido Steel)

- 24aC-4 [Invited] Effect of co-added transition metal elements on the glass forming ability and soft magnetic properties of high-M_s nanocrystalline alloys
°J. Jeong, H. Im, S. An, K. Kim, S. Yang (Korea Institute of Materials Science)
- 24aC-5 [Invited] Rapidly annealed high-B_s FeCo-based nanocrystalline soft magnetic alloys for high-temperature applications
°I. Skorvanek¹, B. Kunca¹, J. Marcin¹, P. Svec² (¹IEP SAS, Kosice, ²IP SAS, Bratislava)
- 24aC-6 Analysis of complex permeability for Permalloy foil
°Y. Tomita¹, T. Ogasawara², H. Takabayashi¹, T. Iriyama¹ (¹Daido Steel, ²National Inst. Tech.)
- 24aC-7 Effect of Yttrium addition on magnetic softness and dynamic magnetic properties of (Fe₇₁Ga₂₉)_{1-x}Y_x films
°S. Ajaia, R. Nishina, T. Miyazaki, S. Muroga, Y. Endo (Tohoku Univ.)
- 24aC-8 Sweep Rate Dependency of Permeability and Coercivity in DC B-H Measurements
°S. Hashimoto, T. Morita, H. Takabayashi (Daido Steel)

Hard magnetic materials III**13:00 ~ 14:00**

Chair: W. Yamaguchi (AIST), T. Hasegawa (Akita Univ.)

- 24pC-1 Sm₂Fe₁₇N₃ powder for heat-resistant bonded magnets
°W. Yamaguchi, A. Hosokawa, K. Takagi, Y. Hirayama (AIST)
- 24pC-2 Evaluation of magnetic properties of mechanically ground SmCo₅ fine powder
°K. Park, Y. Hirayama, J. Wang (AIST)

- 24pC-3 Evaluation of equilibrium oxygen partial pressure of W-type ferrite solid-solution state $\text{SrCo}_x\text{Fe}_{18-x}\text{O}_{27}$ ($0 < x < 2$)
^oS. Nakai, T. Waki, Y. Tabata, H. Nakamura (Kyoto Univ.)
- 24pC-4 Phase diagrams and magnetic properties of Fe-Co-X and Fe-Co-V-X (X = B, C, N, O) films
^oT. Hasegawa, C. Shirai, T. Nishikawa, T. Osanai (Akita Univ.)

Ferrites: from fundamental to applications 14:15 ~ 15:15

Chair: H. Nakamura (Kyoto Univ.), K. Park (AIST)

- 24pC-5 Influence of Partial Substitution of Mn on Magnetostrictive Properties of $\text{Cu}_{0.5}\text{Co}_{0.5}\text{Fe}_2\text{O}_4$
^oM. Hisamatsu¹, S. Kosugi¹, K. Suzuki¹, Y. Ohishi¹, S. Seino¹, H. Muta¹, T. Nakagawa¹, S. Fujieda²
 (¹Osaka Univ., ²Shimane Univ.)
- 24pC-6 Oxygen potential controlled hexagonal ferrites
^oH. Nakamura, T. Waki, S. Nakai, M. Ade, Y. Tabata (Kyoto University)
- 24pC-7 Photocatalytic Degradation Enhancement of Rhodamin B using Magnetically Separable and Reusable $\text{MnFe}_2\text{O}_4/\text{rGO}$ Nanocomposites Green-Synthesized Utilizing Plant Leaf Extract
^oK. Kurnia¹, N. P. Rini¹, D. L. Puspitarum¹, E. K. Sari¹, N. I. Istiqomah¹, L. J. Mahardhika¹, T. Kato^{2,3}, D. Oshima³, A. D. Nugraheni¹, E. Suharyadi¹ (¹Department of Physics, Universitas Gadjah Mada, ²Institute of Materials and Systems for Sustainability, ³Department of Electronics, Nagoya University)
- 24pC-8 Photodegradation of doxycycline antibiotic using magnetically separable and reusable $\text{Fe}_3\text{O}_4/\text{Chitosan}$ nanocomposites green-synthesized utilizing moringa oleifera extract
^oS. Sudarmono^{1,2}, E. Suharyadi¹, N. I. Istiqomah¹, L. J. Mahardhika¹, C. Chotimah¹
 (¹Universitas Gadjah Mada, ²Universitas Cenderawasih)

Apr. 24/Room D

Advances in interplay between superconductivity and magnetism

9:00 ~ 10:45

Chair: K. Jeon (Chung-Ang Univ.), T. Yamashita (Tohoku Univ.)

- 24aD-1 [Invited] Zero-field polarity-reversible Josephson supercurrent non-reciprocity and non-volatile anomalous phase-shift
^oK. Jeon (Department of Physics, Chung-Ang University (CAU), Seoul 06974, Republic of Korea)
- 24aD-2 [Invited] Pure spin current transport and spin-triplet superconductors: Insights and Advances
^oS. Huang (National Taiwan University)
- 24aD-3 Nb/GdN/Nb Josephson junction for future superconducting spintronics and quantum computing
^oF. Li¹, W. F. Holmes-Hewett², J. Miller², S. Granville², B. Ruck², M. Tanaka¹, A. Fujimaki¹
 (¹Nagoya University, ²Victoria University of Wellington)
- 24aD-4 [Invited] Superconducting spintronics for scalable superconducting flux qubits
^oT. Yamashita (Tohoku Univ.)

Spin related phenomena in functional materials I 11:00 ~ 12:30

Chair: S. Karube (Kyoto Univ.), H. Koo (KIST)

- 24aD-5 [Invited] Symmetry manipulation and spin conversion
^oJ. Yoo (Unsan National Institute of Science and Technology)
- 24aD-6 [Invited] Topological Surface States in Alpha-Sn
^oM. Wu (Northeastern University)
- 24aD-7 Spin current enhancement by a WSe_2 spin sink
^oY. Chu¹, K. Chiu¹, M. Lin^{1,2,3} (¹National Taiwan University, ²Institute of Atomic and Molecular Sciences, Academia Sinica, ³Research Center for Applied Sciences, Academia Sinica)
- 24aD-8 Observation of unconventional spin current in altermagnetic CrSb
^oC. Tseng, S. Karube, H. Narita, R. Hisatomi, Y. Shiota, D. Kan, Y. Shimakawa, T. Ono (Kyoto Univ.)

Spin related phenomena in functional materials II 13:30 ~ 15:15

Chair: Y. Shiota (Kyoto Univ.), J. Yoo (Ulsan National Institute of Science and Technology)

- 24pD-1 [Invited] Tailoring Spin-Orbit Torque Efficiency via Facilitating Global Néel Order in W/NiO/CoFeB Trilayer
H. Chang¹, K. Chi², Y. Lin¹, Y. Lai¹, Y. Huang¹, C. Pai², °C. Yang¹
(¹National Yang Ming Chiao Tung University, ²National Taiwan University)
- 24pD-2 Observation of anisotropy of orbital Hall effect in an epitaxial titanium
°S. Karube¹, Y. Yahagi², H. Narita¹, R. Hisatomi¹, Y. Shiota¹, T. Ono¹ (¹Kyoto Univ., ²NEC)
- 24pD-3 Spin-torque efficiency of Si-Al alloy films with varying compositional ratios and deposition methods
°H. Nakayama¹, T. Horaguchi², K. Yamanoi¹, Y. Nozaki¹ (¹Keio Univ., ²Fukuoka Univ.)
- 24pD-4 Reciprocity of charge-spin conversion in a quantum well channel
°H. Koo^{1,2}, S. Kim^{1,2}, J. Lee^{1,2}, W. Choi^{1,2} (¹KIST, ²Korea University)
- 24pD-5 [Invited] Multiferroic heterostructured devices for energy efficient electronics and biomedical applications
°J. Hong (Hubei Univ. Tech.)

Apr. 24/Room E

Strain-induced related phenomena 9:45 ~ 10:30

Chair: J. Okabayashi (Univ. of Tokyo), K. Toyoki (Osaka Univ.)

- 24aE-1 Elastic anomaly and strain-induced pseudo-gap modulation in semimetallic antiferromagnet Cr_{0.8}Al_{0.2} thin film
°K. Toyoki, Y. Tsujimoto, Y. Shiratsuchi, R. Nakatani (Osaka Univ.)
- 24aE-2 Elastic anomaly and pseudo-gap formation in antiferromagnetic semimetal (Cr_{1-y}Fe_y)_{1-x}Al_x thin films
°F. Kamimura¹, T. Matsumura¹, Y. Tsujimoto¹, K. Toyoki^{1,2,3}, Y. Shiratsuchi^{1,2,3}, R. Nakatani^{1,2,3}
(¹Osaka Univ., ²CSRN, ³OTRI)
- 24aE-3 Microscopic origin of magnetostriction in Fe₃Ga studied by operando XMCD and Mössbauer spectroscopies
°J. Okabayashi¹, T. Usami², S. Sakai³, K. Fujiwara³, Y. Kobayashi⁴, T. Mitsui³, K. Hamaya²
(¹Univ. of Tokyo, ²Osaka Univ., ³QST, ⁴Kyoto Univ.)

Novel magnetic phenomena 11:00 ~ 12:00

Chair: S. Li (QST), J. Lin (National Yang Ming Chiao Tung Univ.)

- 24aE-4 [Invited] Observation of spin-triplet superconductivity in CoSi₂/TiSi₂ heterojunctions
S. Chiu², S. Yeh¹, V. Mishra³, F. Zhang³, S. Kirchner¹, °J. Lin¹
(¹National Yang Ming Chiao Tung University, ²Fu Jen Catholic University, ³University of Chinese Academy of Sciences)
- 24aE-5 [Invited] Identification of Many-body Entanglement in Quantum Magnetism
°E. Moon (KAIST)

Electrical manipulation of magnetic properties 13:00 ~ 14:30

Chair: T. Nozaki (AIST), J. S. Tsay (National Taiwan Normal Univ.)

- 24pE-1 [Invited] Large voltage-controlled magnetic anisotropy effect in magnetic tunnel junctions prepared by cryogenic temperature deposition
°T. Nozaki¹, T. Ichinose¹, T. Yamamoto¹, J. Uzuhashi², T. Nozaki¹, H. Nakayama¹, A. Sugihara¹, M. Konoto¹, K. Yakushiji¹, T. Ohkubo², S. Yuasa¹ (¹AIST, ²NIMS)
- 24pE-2 Electric field control of magnetic anisotropy for oriented Co/graphene and application as an inductor with field tunability
C. Chang², P. Jiang², Y. Chow², T. Yang², °J. Tsay¹
(¹National Taiwan Normal University, ²Minghsin University of Science and Technology)
- 24pE-3 Voltage Control of Perpendicular Anisotropy with High-Endurance Ferroelectric Hf1-xZrxO2 Gate Oxide
°J. Chen, Y. Lin, K. Yeh, T. Yang, Y. Tseng (NYCU)
- 24pE-4 Voltage induced bi-polar AFM spin reversal using magnetoelectric effect in Pt/Cr₂O₃/V₂O₃/Pt epitaxial films
°N. Murayama¹, H. Sameshima¹, K. Ujimoto¹, Y. Matsumoto¹, K. Toyoki^{1,2,3}, R. Nakatani^{1,2,3}, Y. Shiratsuchi^{1,2,3}
(¹Osaka Univ., ²CSRN, ³OTRI)
- 24pE-5 Low-voltage AFM spin reversal in Pt/Cr₂O₃/Ru/Pt epitaxial thin layer
°Y. Matsumoto¹, H. Sameshima¹, N. Murayama¹, K. Toyoki^{1,2,3}, R. Nakatani^{1,2,3}, Y. Shiratsuchi^{1,2,3}
(¹Osaka Univ., ²CSRN, ³OTRI)

Apr. 24/Poster Room

Poster session VI

10:30 ~ 13:30

- 24aPS-1 Study on a Low Iron Loss Motor Using Amorphous Ribbon Cut Cores
°T. Saito, Y. Yoshida, S. Sakurai, K. Tajima (Akita Univ.)
- 24aPS-2 A Study on LSPM high efficiency design considering initial operation characteristics
°J. Lee¹, D. Jung², K. Lee¹ (¹Korea Electronics Technology Institute, ²Andong National University)
- 24aPS-3 A Study on Ac Loss Analysis According to Stator Winding Method and High-Speed Design
°J. Lee¹, D. Jung², K. Lee¹ (¹Korea Electronics Technology Institute, ²Andong National University)
- 24aPS-4 Characteristic Analysis of an Outer Rotor Type Permanent Magnet Synchronous Motor using Subdomain Method
°M. Koo¹, H. Shine² (¹Purpose Built Mobility Group, KITECH, ²Specialized Machinery and Robotics Group, KITECH)
- 24aPS-5 Prediction of annealing temperature influence for magnetic alloy ribbon using random forest regression trained with process information
°S. Muroga¹, T. Takasu¹, S. Matsumoto¹, S. Ajia¹, R. Umetsu¹, S. Mikami², T. Hiraki², Y. Endo¹ (¹Tohoku Univ., ²Toho Zinc)
- 24aPS-6 Influence of annealing temperature and compaction pressure on magnetic properties of dust cores composed of iron powders
°Y. Kodama, S. Ajia, T. Miyazaki, S. Muroga, Y. Endo (Tohoku Univ.)
- 24aPS-7 Numerical analysis of magnetization characteristics in curved chain magnetic nanoparticles
°H. Zhang, Y. Sun, H. Wang, T. Sasayama, T. Yoshida (Kyushu Univ.)
- 24aPS-8 Synthesis and Evaluation of Smart Magnetic Nanocarriers Incorporating Polyphenols for Targeted Breast Cancer Intervention
°M. Mohammed Mustafa, K. Natarajan, S. Palanisamy, L. Subbiah (Anna University)
- 24aPS-9 Highly sensitive detection of sub pT magnetic field in nondestructive inspection using magnetoresistive sensor
°Y. Kono¹, H. Ahn¹, A. Tanaka¹, S. B. Trisnanto¹, T. Kasajima², T. Shibuya², Y. Takemura¹
(¹Yokohama National Univ., ²TDK)
- 24aPS-10 Detection of magnetic nanoparticles by using magnetoresistive sensor coupled with induction coil
°K. Suzaki¹, S. Nabeta¹, S. B. Trisnanto¹, T. Kasajima², T. Shibuya², Y. Takemura¹ (¹Yokohama National Univ., ²TDK)
- 24aPS-11 Development of a Drying Method for Magnetic Nanoparticle Dispersions with Enhanced Re-dispersibility
°S. Seino¹, K. Nishigaki¹, A. Tanaka², T. Sakane², T. Kiwa³, M. Washino⁴, T. Nakagawa¹
(¹Osaka Univ., ²Kobe Pharm. Univ., ³Okayama Univ., ⁴Mitsubishi Electric Corp.)
- 24aPS-12 Effect of preparation method and size on magnetic properties of Mn_{0.6}Zn_{0.4}Fe₂O₄ ferrite
°E. Bekhbaatar, S. Kobayashi, H. Li (Iwate Univ.)
- 24aPS-13 Design and optimization of magnetically activated letrozole nanoliposomes for targeted breast cancer therapy
°K. N, M. R G, A. R, L. S, S. P (Anna University - BIT Campus)
- 24aPS-14 Magnetic Lipidome-Infused Sirolimus: A Targeted Ferroptosis-Driven Approach for Breast Cancer Therapy
°M. Ramasamy Govindaraj, K. Natarajan, K. Ganesan, S. Palanisamy, L. Subbiah (Anna University)
- 24aPS-15 Blue Light-induced Radical Pairs in Flavin-Tryptophan Dyads in the Solid States
°Y. Oka, K. Inoue (Hiroshima Univ.)
- 24aPS-16 Development of superparamagnetic nanocluster probes for the realization of a multiplex immunoassay using magnetic particle spectroscopy
°S. Shimizu¹, A. Sakai¹, M. Takahashi¹, T. Yoshida², S. Maenosono¹ (¹JAIST, ²Dept. Electrical Eng., Kyusyu Univ.)
- 24aPS-17 Improvement of absorption force of magnetic attachment by utilizing stainless steel magnets
°C. Mishima, T. Mitsunaga, Y. Honkura (Magnedesign)

IcAUMS 2025 AUTHOR INDEX

(A)

H. Abe, 24aB-7
M. Abe, 23aD-2
T. Abe, 22aPS-7
T. Abe, 23pPS-3
Y. Adachi, 22aE-4
M. Ade, 24pC-6
S. Agrestini, 23pC-3
H. Ahn, 24aPS-9
Hyo-Bin Ahn, 24aB-3
Sung-Min Ahn, 24pB-1
S. Ajia, 23pD-4, 23pPS-9,
24aC-7, 24aPS-5, 24aPS-6
H. Ajrina, 22pC-5
J. Akerman, 22pB-7
S. Akita, 23pE-6
Y. Akiyama, 21pPS-14,
24pA-5
P. Alagarsamy, 23aPS-35
P. Allongue, 22aPS-5
K. Amemiya, 22aPS-14,
23pE-6, 23pE-7
A. Amirov, 22aE-1
T. Amiya, 23pPS-21,
23pPS-26
S. An, 24aC-4
A. Anbalagan, 23pC-4
Bharadwaj Reddy Andapally,
23aD-5
Ken-ichi Aoshima,
22pPS-13
A. Aprilia, 23aC-4
H. Arai, 21pPS-35, 24aC-3
R. Arakawa, 22aPS-12
Y. Araki, 22aB-4, 23aPS-8
H. Ardiyanti, 22pC-5
R. Arita, 23pA-5
R. Asih, 24aB-6
F. Astuti, 24aB-6
S. Awaji, 23pPS-4
H. Awano, 22aPS-19,
22pPS-21, 22pPS-23,
23aPS-7, 23aPS-10,
23aPS-22, 23aPS-31,
23aPS-32, 23aPS-36
D. Azuma, 23aD-6

S. Azzahro, 22aE-6

(B)

Kyoung-Hoon Bae, 21pD-2
Geon-Woo Baek, 22pA-3
S. Baek, 21pPS-17
X. Bao, 21pPS-22, 23aE-9,
23aPS-20
M. Baqiya, 24aB-6
M. Bard, 23pC-2
J. Barker, 23aB-3
G. Bauer, 24aA-6
M. Bazrov, 22aC-4, 23pE-3
C. Beatrice, 22pD-2
E. Bekhbaatar, 24aPS-12
V. Belotelov, 24pA-4
A. Berger, 23aC-2
F. Berger, 22pE-1
D. Besserga, 24pB-4
A. Bezmenova, 24pA-4
R. Bhatt, 23aPS-17,
23aPS-19
Ramesh Chandra Bhatt,
22aB-5
Vinod Naik Bhukya, 22pC-2
S. Biswas, 23aPS-35
Juan Maria Blanco, 23pPS-8
A. Bolyachkin, 23aD-4
N. Brookes, 23pC-3

(C)

N. Cacoilo, 22aB-7
A. Cahaya, 24aA-3
X. Cai, 22aE-3
Y. Cao, 24aA-1
Phuoc Cao Van, 21pC-5
J. Cezar, 23pC-3
Hee-Ryoung Cha, 21pD-5
F. Chafi, 22pPS-23
V. Chahar, 23aC-8
Weng Kent Chan, 23pC-4
Cheng-Hsun-Tony Chang,
24pE-2
Ching-Ray Chang, 22aPS-25
Liang-Juan Chang, 22pC-2
Po-Yao Chang, 24pB-3
Tay-Rong Chang, 24pB-2

I. Charalampidis, 23aB-3

R. Chatterjee, 23aC-8
S. Chatterjee, 23aB-7
S. Chauhan, 22aPS-33
A. Chen, 22pB-6
C. Chen, 22pPS-9
C. Chen, 23pC-3
Chia-Ju Chen, 24pB-3,
24pB-5
Chun-Yen Chen, 23aPS-38
Guan-Jhou Chen, 23aPS-38
Guan-Yu Chen, 23pC-9
Hsin-Yi Chen, 23pC-4
J. Chen, 22aE-3, 23aA-3
J. Chen, 23aPS-20
Jin-Wen Chen, 24pE-3
Jing-Wen Chen, 23pD-7
Ko-Hsuan Chen, 23aE-6
Kuan-Ming Chen, 21pB-6
L. Chen, 21pPS-29, 22aB-10
Q. Chen, 22pD-1
X. Chen, 22pA-1
Yi-Pin Chen, 24pB-5
Tsai-Ni Cheng, 23pD-7
Tzu-Yen Cheng, 24pB-5
N. Chernousov, 22aPS-11
D. Chiba, 23pE-1
H. Chiba, 22pPS-18,
22pPS-19
T. Chiba, 21pPS-9,
22pPS-22, 24pA-2
R. Chida, 21pPS-36
Y. Chin, 22aB-10, 23pC-3
J. Chiou, 22aB-10
A. Chirkova, 23pC-10
Kuan-Chia Chiu, 24aD-7
Shao-Pin Chiu, 24aE-4
Jang-Young Choi, 23pD-2
Won Young Choi, 24pD-4
Y. Choi, 23pPS-11
Haein Choi-Yim, 23pPS-11
R. Chopdekar, 24aC-1
C. Chotimah, 24pC-8
H. Chou, 22aB-10
Yu-Ting Chow, 24pE-2
R. Chu, 23aPS-41
Yu-Hsun Chu, 24aD-7

Tzu-Hung Chuang, 23aC-5

E. Coronado, 22aD-5
Paula Corte-Leon, 22pC-8,
23pPS-8
D. Cortie, 22aB-10

(D)

K. Daike, 22aPS-9
H. Dam, 22aA-4
M. Darmawan, 22aE-6
D. Darminto, 24aB-6
A. Davydenko, 22aPS-11,
23pE-3
L. Davydenko, 23pE-3
R. Deacon, 21pPS-27
K. Deepak, 23aPS-16
S. Demir, 22aD-4
Karunathilaka De Zoysa,
23aB-8
B. Dieny, 22pE-1
T. Doan, 22aE-9
S. Dobak, 22pD-2
M. Dobrowolska, 23aPS-9
T. Dohi, 23aB-8
M. Doi, 23pPS-7, 23pPS-19
J. Downes, 21pPS-39
T. Drevelow, 24pB-5

(E)

S. Eda, 23aC-4
Y. Endo, 23pD-4, 23pPS-9,
23pPS-13, 24aC-7,
24aPS-5, 24aPS-6
Y. Enokizono, 23aD-6
K. Eom, 23aPS-15

(F)

T. Fan, 22pB-9
X. Fan, 23aPS-38
Y. Fan, 22aPS-25
Sheng-Yu Fang, 23pD-7
K. Fathoni, 22aPS-17
A. Fathy, 22pC-2
C. Felser, 23aC-3
Y. Feng, 23pE-3
F. Fiorillo, 22pD-2
A. Frolov, 23pPS-28

- X. Fu, 23aPS-41
O. Fujie, 22pB-9
S. Fujieda, 24pC-5
H. Fujihisa, 21pC-4
K. Fujii, 23pPS-24
A. Fujimaki, 24aD-3
M. Fujioka, 23pC-6
A. Fujita, 21pD-7
S. Fukami, 21pB-2, 22aB-7, 23aB-8, 23pA-4
T. Fukui, 22aE-4
H. Fukunaga, 22aPS-13, 22aPS-15, 23pPS-5, 23pPS-6, 23pPS-14, 23pPS-15, 23pPS-16, 23pPS-21, 23pPS-22, 23pPS-23, 23pPS-24, 23pPS-26
N. Funabashi, 22pPS-13
J. Furdyna, 23aPS-9
Y. Furukawa, 23aPS-14
M. Fushimi, 23pB-4
M. Futagawa, 22aE-7
J. Fuzer, 22pD-2
- (G)
- K. Ganesan, 24aPS-14
E. Ganshina, 23pPS-27
G. Gardner, 21pPS-26, 21pPS-27
K. Garelo, 21pA-3
A. Gayen, 23pB-1
X. Gidrol, 22pE-1
D. Go, 22aB-1
A. Gocho, 21pPS-14, 24pA-5
Y. Gohda, 23aC-7
A. Gonzalez, 22pC-8
M. Gorbis, 24aC-1
J. Gorchon, 24pA-1
M. Gorshenkov, 23pPS-18
H. Goto, 22aE-7
S. Granvile, 24aD-3
S. Greaves, 21pPS-12, 22aPS-30, 23aE-1, 23aE-2, 23aE-3
M. Gribelyuk, 22pB-10, 22pC-3
S. Gronin, 21pPS-26, 21pPS-27
A. Grutter, 22aB-10
- Guang-Yu Guo, 23aPS-40
N. Gupta, 23aPS-35
- (H)
- N. Hai, 23aPS-19
P. Hai, 22aB-3, 22aPS-3, 22pB-9, 22pB-10, 22pB-12, 22pC-3
A. Hamakawa, 23pPS-6
K. Hamaya, 21pPS-11
J. Han, 23pA-4
L. Han, 22pB-6, 23aPS-41
S. Han, 21pA-5
K. Hara, 22pPS-1
Y. Hara, 23pC-6
T. Harada, 23pC-6
M. Hasan, 22pB-2
H. Hasegawa, 23aPS-12
T. Hasegawa, 21pPS-21, 21pPS-34, 24pC-4
S. Hashimoto, 22pPS-21
S. Hashimoto, 24aC-8
M. Hashisaka, 23pC-2
D. Hastuti, 24aC-2
A. Hatate, 22aPS-14
S. Hattori, 23pPS-22
T. Hattori, 22aPS-26
T. Hauet, 24pA-1
S. Hayami, 22aD-1
K. Hayashi, 22aPS-26
T. Hayashida, 21pPS-19
C. He, 22aB-8
S. Hebert, 23pC-3
M. Hehn, 24pA-1
S. Heinze, 24pB-5
G. Hermosa, 21pPS-39
D. Hernandez, 22aE-2
H. Heyen, 22pB-7
Y. Hibino, 23pA-5
K. Higashi, 23pPS-21, 23pPS-23
T. Higo, 23pA-5
M. Hikishima, 21pPS-33
T. Hirai, 21pC-4, 23aPS-35, 24aA-4
T. Hiraki, 23pPS-13
T. Hiraki, 24aPS-5
A. Hirata, 23pPS-31, 23pPS-32
Y. Hiratsuka, 22aE-5
- Y. Hirayama, 21pD-6, 24pC-1, 24pC-2
Y. Hirayama, 22aB-3, 22pB-13
Y. Hirobe, 22pPS-8
A. Hirohata, 23aC-3
T. Hiroki, 22pD-6
R. Hirose, 23pPS-15
T. Hiroto, 22aPS-4
Y. Hisada, 21pPS-16
M. Hisamatsu, 24pC-5
R. Hisatomi, 22pC-1, 22pPS-6, 22pPS-7, 23aPS-23, 24aD-8, 24pD-2
Y. Hisatomi, 23pB-8
A. Hodges, 21pPS-39
J. Hohlfield, 24pA-1
Huy Ho Hoang, 22aB-3
William Holmes-Hewett, 24aD-3
T. Homma, 22aPS-20
J. Honda, 22pC-10
S. Honda, 23aPS-22
J. Hong, 24pB-4
J. Hong, 24pD-5
Jhen-Yong Hong, 23aPS-38
M. Hong, 23aE-6
S. Honkura, 21pPS-33
Y. Honkura, 21pPS-33, 24aPS-17
T. Honma, 22pPS-23
T. Horaguchi, 24pD-3
K. Horie, 23pPS-31, 23pPS-32
M. Horie, 23pE-2
K. Horizumi, 22pPS-22
A. Hosokawa, 24pC-1
A. Hotta, 21pPS-38
Tuo-Hung Hou, 21pB-6
X. Hou, 22aPS-18
M. Hsieh, 21pB-9
Min-Fu Hsieh, 23aD-1
Hua-Su Hsu, 24pB-2
Pin-Jui Hsu, 24pB-3, 24pB-5
K. Hsueh, 22aB-10
Chia-Ming Hu, 22pC-2
Fang-Chi Hu, 23pC-4
Y. Hu, 22aPS-3
Z. Hu, 23pC-3
Y. Huai, 21pA-6
Bao-Huei Huang, 21pPS-20
- Hsin-Hau Huang, 22aPS-32
Jung-Chun Huang, 24pB-2
L. Huang, 23pB-1
Ssu-Yen Huang, 23aPS-25, 23aPS-30, 23aPS-38, 24aD-2
T. Huang, 22aB-10, 22aPS-5, 22pB-2
Tai-Sheng Huang, 23aPS-38
Tzu-Tai Huang, 24pB-2
Yen-Lin Huang, 23pA-3
Yu-Chieh Huang, 23aC-5
Yu-Yun Huang, 22pC-2
T. Huda, 21pB-9
C. Hwang, 22pB-9, 22pB-10, 22pC-3
C. Hwang, 23aB-2, 23aB-4, 24aB-3
S. Hwang, 22pA-3
- (I)
- T. Ichinose, 21pA-1, 23pE-5, 24pE-1
T. Ichitsubo, 21pC-3
T. Ideue, 24aB-5
J. Ieda, 22aB-4, 23aPS-8
Y. Igarashi, 21pB-7
D. Iida, 23pB-7
S. Iihama, 22aPS-26, 22pA-6, 23aPS-13
R. Iijima, 22pPS-6, 22pPS-7
R. Iimori, 23aPS-27
A. Iino, 23pB-4
N. Ilin, 22aPS-21, 22aPS-22, 23aE-8, 23pPS-29
Hyun Ah Im, 24aC-4
Mi-Young Im, 24aB-3
H. Imaeda, 23aPS-32, 23aPS-36
H. Imamura, 21pPS-35, 24aC-2, 24aC-3
K. Imamura, 21pPS-4, 21pPS-5, 22aPS-16
K. Imura, 21pPS-17, 22pPS-4
S. Inamura, 21pC-7
Y. Inaoka, 23aPS-23
K. Inoue, 24aPS-15
M. Ipatov, 23pPS-8
T. Iriyama, 24aC-6
K. Ishibashi, 21pPS-27

- K. Ishibashi, 22pA-6, 23aPS-13
T. Ishibashi, 22pPS-23
K. Ishida, 22aPS-3, 22pB-12
T. Ishida, 23pB-7
A. Ishii, 23pPS-3
T. Isobe, 22pPS-20
N. Isogai, 23pPS-30
S. Isogami, 22aPS-16, 22pB-2, 22pB-3, 22pB-4, 22pB-5, 24aB-7
N. Istiqomah, 22aE-6, 22pC-5, 24pC-7, 24pC-8
D. Ito, 22pB-9
K. Ito, 21pPS-23, 22aPS-18, 23aPS-34
R. Iwami, 21pPS-5
S. Iwamoto, 22pPS-11
S. Iwasaki, 23pC-6
Y. Iwasaki, 21pB-7, 22aA-3, 22aB-6
T. Iwata, 21pPS-3
Y. Iwayama, 23pPS-22
K. Izumiya, 23aD-6
- (J)
- J. James, 22pB-10
Jae Gwang Jang, 22pA-3
R. Jansen, 21pB-5, 22aC-3
F. Jelezko, 23aA-5
Horng-Tay Jeng, 24pB-3
Hee Yeon Jeon, 23pPS-25
Kun-Rok Jeon, 24aD-1
Jae Won Jeong, 22pC-7, 24aC-4
Jong-Ryul Jeong, 21pC-5, 23aPS-15
Y. Ji, 24aB-3
A. Jiananda, 22aE-6
Pei-Cheng Jiang, 24pE-2
H. Jin, 21pC-5
Z. Jin, 22aE-3, 23aA-3
Z. Jin, 24aA-1
Y. Jo, 23aPS-5, 23aPS-6, 23aPS-40
H. Joisten, 22pE-1
E. Jun, 21pB-3
Dong-Hoon Jung, 24aPS-2, 24aPS-3
H. Jung, 21pA-5
- Myung-Hwa Jung, 22aC-2, 22pA-3
S. Jung, 23aPS-37
W. Jung, 24aC-1
- (K)
- S. Kagami, 22pB-9
K. Kagawa, 21pPS-2, 21pPS-5
S. Kamakura, 21pPS-13
Y. Kamihara, 23pC-6
F. Kamimura, 24aE-2
K. Kamiya, 23pD-5, 23pD-8
S. Kamiya, 23pPS-30
S. Kammoto, 22pPS-2, 23aPS-18
D. Kan, 24aD-8
S. Kanai, 22aB-7
Y. Kanai, 22aPS-30, 23aE-1
H. Kaneko, 22aB-7
K. Kaneshima, 21pPS-14
K. Kankhunthod, 23aE-4
N. Kar, 23pD-1
S. Karube, 22pC-1, 22pPS-6, 22pPS-7, 23aPS-23, 24aD-8, 24pD-2
S. Kasai, 22aB-4, 22aC-1, 22aPS-4, 22aPS-5, 22pB-2, 23aB-7
T. Kasajima, 24aPS-9, 24aPS-10
S. Kataoka, 21pPS-2
T. Kato, 22aE-6, 22aPS-20, 22pB-13, 22pC-4, 24pC-7
Y. Kato, 22aB-3, 22pB-13
M. Kawai, 22pPS-17
T. Kawai, 23pPS-30
M. Kawana, 22pPS-13
R. Kawana, 22aPS-20
R. Kawarazaki, 22pPS-6, 22pPS-7
S. Kawasaki, 21pPS-37
H. Kayama, 21pPS-12
A. Khametong, 23aE-2, 23aE-4
D. Khomskii, 23pC-3
Hanae Kijima-Aoki, 21pPS-32, 22pC-10
A. Kikitsu, 21pPS-31
- H. Kikuchi, 21pPS-36, 21pPS-37, 22pPS-18, 22pPS-19
N. Kikuchi, 24pA-2
T. Kikuta, 22pPS-4
D. Kim, 21pD-3
D. Kim, 21pPS-39
D. Kim, 23aPS-3
Dong-Hyun Kim, 23pB-1
Duck-Ho Kim, 23aB-1
G. Kim, 21pD-1, 21pD-3
H. Kim, 22aE-2
J. Kim, 21pA-1, 23pE-5
J. Kim, 23pB-1
Jeong Hyun Kim, 23pPS-25
K. Kim, 22aE-2
K. Kim, 23pB-1
K. Kim, 24aB-4
K. Kim, 24aC-4
Kab-Jin Kim, 22pA-3, 23aPS-15, 24aB-3
Ki-Bong Kim, 22pC-7
Kyong-Whan Kim, 24aB-4
Kyoung-Nam Kim, 22aE-2
M. Kim, 23aPS-5, 23aPS-6, 23aPS-40
S. Kim, 21pB-3, 23pA-2, 24aB-4
S. Kim, 21pD-3, 21pD-5
S. Kim, 23aPS-24
Sang-Koog Kim, 22pE-3
Se Kwon Kim, 21pC-5, 22pA-3
Seok-Jong Kim, 24aA-5
Seong Been Kim, 24pD-4
T. Kim, 21pD-3
Tae-Hoon Kim, 21pD-1, 21pD-2, 21pD-5, 22pPS-15, 23pPS-25
Young Keun Kim, 23aPS-3
T. Kimura, 21pPS-1, 22pPS-2, 22pPS-3, 23aPS-14, 23aPS-18, 23aPS-27
T. Kimura, 21pPS-19
H. Kino, 22aA-4
T. Kinoshita, 22aB-7
S. Kirchner, 24aE-4
M. Kishimoto, 23pPS-31, 23pPS-32
S. Kishimoto, 23aPS-21
- E. Kita, 22pPS-20, 23pPS-10
S. Kitahara, 23pPS-4
T. Kitamura, 22pPS-8
Y. Kitaoka, 24aC-2
H. Kitazawa, 23pD-6, 23pD-8
T. Kiwa, 24aPS-11
W. Klich, 21pB-5
Hye-Won Ko, 22pA-3
S. Ko, 21pA-5
S. Ko, 22pA-3, 23aPS-15
N. Kobayashi, 23pPS-1
R. Kobayashi, 21pPS-14, 24pA-5
S. Kobayashi, 21pC-4, 24aPS-12
S. Kobayashi, 21pPS-26, 21pPS-27
P. Kochcha, 23aE-4
T. Kodama, 21pPS-9, 24pA-2
Y. Kodama, 23pD-4, 24aPS-6
Y. Kodani, 23aPS-27
M. Kohda, 24aA-5
K. Koike, 23pPS-26
Y. Koike, 24aB-6
H. Koizumi, 23aC-3, 23pC-7
T. Koizumi, 23aPS-32
S. Kokado, 21pPS-25
P. Kollar, 22pD-2
T. Komeda, 23pB-9
T. Komine, 22pPS-22
H. Komiyama, 22pC-1
A. Komlev, 23pC-10
S. Komori, 21pPS-16, 21pPS-17, 22aPS-12, 22pPS-4
K. Komuro, 22pC-4
Y. Kono, 24aPS-9
M. Konoto, 24pE-1
Hyun Cheol Koo, 24pD-4
Min-Mo Koo, 24aPS-4
H. Kosaki, 23pA-5
S. Kosugi, 24pC-5
Y. Kotani, 22pB-4
Y. Kotani, 23pA-5
M. Kotsugi, 22aA-1, 22aA-2, 22aPS-2
K. Koyama, 21pPS-28, 21pPS-30

- T. Koyama, 23pE-1
T. Koyama, 23pPS-3
A. Kozlov, 22aPS-11,
22aPS-23, 23pE-3
G. Kraynova, 23pPS-28,
23pPS-29
D. Krichevsky, 24pA-4
D. Kriegner, 23pC-1
P. Krueger, 23pE-2
H. Kubota, 21pA-1
T. Kubota, 21pPS-25
Y. Kubota, 21pPS-14,
24pA-5
S. Kudo, 23pPS-19
N. Kulesh, 23aD-4
P. Kulkarni, 22aB-6, 22pC-6
N. Kumada, 23pC-2
A. Kumar, 22pB-7
N. Kumar, 24pB-3
P. Kumar, 22pB-3, 22pB-4,
24aB-7
B. Kunca, 24aC-5
M. Kunimoto, 23pB-8
K. Kurnia, 24pC-7
I. Kurniawan, 21pPS-23
Y. Kurokawa, 23aPS-10,
23aPS-12
V. Kushwaha, 22aPS-18,
23aE-5
P. Kusuma, 22pPS-10
G. Kusuno, 21pPS-19
A. Kuwahata, 23aA-6
M. Kuznetsova, 23pE-3
G. Kwando, 23aC-4
P. Kwangjae, 21pD-6
R. Kwo, 23aE-6
H. Kwon, 23aPS-16
Young-Tae Kwon, 22pC-7
(L)
Chih-Huang Lai, 22pB-1
H. Lai, 22aE-9
Meng-Huang Lai, 22pC-2
S. Lamichane, 23aPS-38
G. Lan, 22aPS-10
Ye-Shun Lan, 24pB-3
D. Larasati, 22aE-6
S. Larsen, 23pD-9
Q. Le, 22pB-9, 22pB-10,
22pC-3, 23aPS-1
S. Le, 22pB-9, 22pB-10,
22pC-3
T. Le, 22aE-5
R. Lecamwasam, 21pPS-39
C. Lee, 22pPS-10
C. Lee, 24aB-3
Chi-Hung Lee, 23pC-9
Chih-Hao Lee, 22aPS-24,
23pC-4
Chu-pu Lee, 22aPS-27
D. Lee, 23aA-4
E. Lee, 22aE-2
H. Lee, 23aPS-24
H. Lee, 23pPS-11
Hyun-Woo Lee, 21pC-1,
22pA-3
J. Lee, 21pD-3
J. Lee, 23aPS-3
J. Lee, 23aPS-5, 23aPS-6,
23aPS-40
J. Lee, 24aB-3
Jae-Kwang Lee, 24aPS-2,
24aPS-3
Jeong Kyu Lee, 23aPS-3
Joo-hyeon Lee, 24pD-4
Jung-Goo Lee, 21pD-5
K. Lee, 21pD-3
K. Lee, 23aPS-5, 23aPS-6,
23aPS-40
Ki-Doek Lee, 24aPS-2,
24aPS-3
Ki-Suk Lee, 21pD-1
Kyung-Jin Lee, 22pA-3,
24aA-5
Kyung Jae Lee, 23aPS-9
S. Lee, 21pB-3
S. Lee, 22pPS-11
S. Lee, 22pPS-15
S. Lee, 23aPS-9
S. Lee, 23aPS-15
S. Lee, 23aPS-15
S. Lee, 21pD-3
S. Lee, 21pD-3
Shang-Fan Lee, 23aE-6
Shao-Kuan Lee, 21pB-4
T. Lee, 21pA-5
T. Lee, 22pA-3
W. Lee, 23aPS-5, 23aPS-40
Y. Lee, 22pPS-15
Young-In Lee, 23pPS-25
E. Lesne, 23aC-3
M. Letushev, 23pE-3
Chung Ho Leung, 23aC-3
F. Li, 24aD-3
G. Li, 23pD-10
H. Li, 24aPS-12
J. Li, 23pC-3
M. Li, 21pPS-22, 22aPS-6
R. Li, 22aPS-1, 23pE-8
Run-Wei Li, 21pPS-22,
22aPS-6, 22pB-8, 22pB-11,
22pC-11, 23aE-9, 23aPS-20
S. Li, 22pC-11
Tzu-Hsin Li, 23aC-5
W. Li, 22aB-3
W. Li, 22aC-5
W. Li, 23pE-3
Wen-Yuan Li, 23aPS-30
S. Liang, 22pB-6
Ching-Te Liao, 23aPS-25
Y. Liao, 23pC-3
J. Lille, 24aC-1
E. Lim, 21pB-3
Pang Boey Lim, 22aPS-33
Cheng-Yen Lin, 23pC-9
Chia-Hsi Lin, 23aPS-30
Fang-Tien Lin, 23aC-5
H. Lin, 22aB-10, 23pC-3
J. Lin, 24pA-1
Jia-Hong Lin, 23aPS-19
Juhn-Jong Lin, 24aE-4
Mau-Tin Lin, 22aPS-32
Minn-Tsong Lin, 24aD-7
Po-Hung Lin, 22pC-2
Tzu-Hsuan Lin, 24pB-3
Yen-Hui Lin, 24pB-3,
24pB-5
Yu-Chun Lin, 22aPS-32
Yu-Lon Lin, 21pB-4, 24pE-3
Yu-Tung Lin, 24pB-5
T. Lindemann, 21pPS-26,
21pPS-27
Yu Hong Ling, 23aC-3
Sy-Hwang Liou, 23aPS-38
A. Lira Foggiatto, 22aA-1,
22aPS-2
G. Liu, 22pD-1
Gang-qin Liu, 22aPS-10
J. Liu, 22pA-1, 23aPS-41
J. Liu, 23pD-10
Kang-yuan Liu, 22aPS-10
M. Liu, 22pB-10, 22pC-3
X. Liu, 22pB-9, 22pB-10,
22pC-3, 23aPS-1
X. Liu, 22pPS-11
X. Liu, 23aPS-9
Y. Liu, 22pC-11
Z. Liu, 21pD-6
D. Loss, 21pPS-26
X. Lu, 23pD-10
J. Luo, 22aE-3
S. Lutsenko, 24pA-4
(M)
F. Ma, 21pPS-8
Y. Ma, 22pC-9
Z. Ma, 22aC-5
K. Machida, 22pPS-13
M. Maeda, 22pB-9, 22pB-10,
22pC-3, 23aPS-1
S. Maenosono, 22aE-5,
24aPS-16
L. Mahardhika, 24pC-7,
24pC-8
D. Mai, 22aE-9
A. Maignan, 23pC-3
D. Makarov, 23aE-9
F. Makino, 21pC-4
G. Malinowski, 24pA-1
H. Mamiya, 23pD-9
M. Manfra, 21pPS-26,
21pPS-27
S. Mangin, 24pA-1
K. Manna, 23aC-8
T. Mannen, 22pPS-20
J. Marcin, 24aC-5
C. Martin, 23pC-3
Y. Maryati, 23aC-4
H. Masuda, 23pB-8
K. Masuda, 21pPS-23
K. Masuda, 22aPS-15
C. Masumoto, 23pPS-9
M. Matoba, 23pC-6
I. Matsuda, 24pA-5
H. Matsumori, 22pD-5
K. Matsumoto, 22aE-9
K. Matsumoto, 23pD-5,
23pD-6, 23pD-8
S. Matsumoto, 23pD-4,
24aPS-5
Y. Matsumoto, 24pE-4,
24pE-5
K. Matsumura, 22aE-5

- K. Matsumura, 22pPS-18
T. Matsumura, 24aE-2
S. Matsuo, 21pPS-26,
21pPS-27
S. Meguro, 22pPS-16
H. Memida, 23pB-8
F. Meng, 23pE-3
Yin-Shan Meng, 22aD-6
D. Merkel, 23pC-10
K. Mibu, 23aPS-22
G. Mihajlovic, 24aC-1
S. Mikami, 23pPS-13,
24aPS-5
J. Miller, 24aD-3
G. Mimuro, 21pPS-25
G. Min, 21pD-2, 22pPS-15
C. Mishima, 24aPS-17
S. Mishra, 22pB-5
V. Mishra, 24aE-4
K. Mita, 21pPS-9
S. Mitani, 22aB-8, 22aC-1,
22aPS-17, 23aPS-1, 24pB-6
Y. Mitsui, 21pPS-28,
21pPS-30
C. Mitsumata, 22aA-1,
22aPS-2
T. Mitsunaga, 24aPS-17
M. Miura, 23pC-6
Y. Miura, 21pB-7, 21pPS-23,
22aB-8, 22pB-4, 24pB-6
Y. Miura, 23pB-6, 23pB-8
S. Miwa, 22pA-5, 23pA-5
K. Miyaji, 23pPS-1
M. Miyakawa, 23aC-6
T. Miyake, 22aA-4
T. Miyamachi, 21pC-6
H. Miyasaka, 23pB-5
D. Miyazaki, 22aPS-28,
22aPS-29
S. Miyazaki, 24aC-3
T. Miyazaki, 23pPS-9,
24aC-7, 24aPS-6
Y. Miyazawa, 22pPS-11
M. Mizuguchi, 21pC-6
S. Mizukami, 22pA-6,
23aPS-13, 23aPS-16
J. Mizuno, 23aPS-7
Y. Mizutori, 21pB-7
Z. Mo, 23pD-10
S. Mochizuki, 23aPS-33,
24pA-5
R. Modak, 23aPS-35
M. Mohammadi, 22aPS-19
Mohammed Sahinsha Mo-
hammed Mustafa,
24aPS-8
R. Mondal, 23aPS-1
Eun-Gook Moon, 24aE-5
Kyoung-Woong Moon,
23aB-4, 24aB-3
R. Morel, 22pE-1
Y. Mori, 23pPS-7
T. Morita, 23pE-1
T. Morita, 24aC-8
T. Moriyama, 22aPS-26
T. Motomura, 22aPS-15
F. Mujaahid, 21pB-9
T. Mukita, 23aPS-21
M. Munzenberg, 22pB-7
C. Murakami, 21pPS-21,
21pPS-34
K. Murakata, 23pPS-19
K. Muraki, 23pC-2
C. Murapaka, 23aPS-1
N. Murayama, 24pE-4,
24pE-5
S. Muroga, 23pD-4,
23pPS-9, 23pPS-13,
24aC-7, 24aPS-5, 24aPS-6
T. Musha, 21pPS-38
Q. Mustaghfiroh, 23pB-1
H. Muta, 24pC-5
(N)
K. N, 24aPS-13
S. Nabeta, 24aPS-10
T. Nagai, 21pPS-19
A. Nagao, 21pPS-10
R. Nagaoka, 22aPS-2
K. Nagarajan, 22aE-8,
22pE-6
S. Nagase, 21pPS-6
K. Nakagawa, 23aPS-21
S. Nakagawa, 22aPS-5,
22pB-2
T. Nakagawa, 22pE-4,
24aPS-11, 24pC-5
S. Nakai, 24pC-3, 24pC-6
H. Nakajima, 24aB-6
M. Nakamoto, 23aPS-18
H. Nakamura, 24pC-3,
24pC-6
K. Nakamura, 23pB-3
T. Nakamura, 22pB-4,
23pA-5
Y. Nakamura, 22aPS-31
Y. Nakamura, 22aPS-33
Y. Nakamura, 23pPS-2,
23pPS-30
T. Nakanishi, 21pPS-9
M. Nakano, 22aPS-13,
22aPS-15, 23pPS-5,
23pPS-6, 23pPS-14,
23pPS-15, 23pPS-16,
23pPS-21, 23pPS-22,
23pPS-23, 23pPS-24,
23pPS-26
S. Nakashima, 23pPS-15
H. Nakashinden, 23pPS-17
R. Nakatani, 24aE-1, 24aE-2,
24pE-4, 24pE-5
T. Nakatani, 21pPS-34,
22aB-6, 22pC-6
Y. Nakatani, 22pPS-21
S. Nakatsuji, 23pA-5
S. Nakatsuka, 23pPS-7
H. Nakayama, 21pA-1,
22pPS-14, 24pE-1
H. Nakayama, 22pPS-17,
24pD-3
A. Nam, 23aPS-5, 23aPS-40
T. Nam, 22aE-2
S. Namba, 22pB-10
H. Namita, 23pC-6
Z. Namsaraev, 23pE-3
M. Naoe, 23pPS-1
H. Narita, 22pC-1, 22pPS-6,
23aPS-23, 24aD-8, 24pD-2
K. Natarajan, 24aPS-8,
24aPS-14
K. Natsume, 23pD-5
C. Naud, 22pE-1
K. Nawa, 23pB-3
A. Nenohai, 24aB-6
S. Nezu, 21pPS-2, 21pPS-3,
21pPS-4, 21pPS-5, 21pPS-6
Hanh-Vy Nguyen, 22aE-9
Quynh Anh Nguyen,
23aPS-3
A. Nicolas, 22pE-1
Y. Niimi, 23aE-10
K. Nishigaki, 24aPS-11
M. Nishikawa, 22aPS-31
T. Nishikawa, 24pC-4
A. Nishikura, 23pPS-17
R. Nishina, 24aC-7
Daisuke Nishio-Hamane,
23pA-5
J. Nitta, 24aA-5
D. Nobayashi, 21pPS-30
T. Nomoto, 23pA-5
Y. Nomura, 23pC-2
H. Nonaka, 22pPS-23
T. Nozaki, 21pA-1,
22pPS-12, 22pPS-14,
23pA-5, 23pE-5, 24pE-1
T. Nozaki, 21pA-1,
22pPS-12, 22pPS-14,
24pE-1
Y. Nozaki, 21pPS-7,
21pPS-10, 21pPS-11,
22pPS-17, 23aPS-2,
23aPS-28, 23aPS-42,
24pD-3
A. Nugraheni, 24pC-7
K. Nukui, 22pA-6, 23aPS-13
T. Numazawa, 23pD-5,
23pD-6, 23pD-8
N. Nuryani, 21pPS-40
(O)
R. Obata, 21pPS-14
P. Obeid, 22pE-1
S. Obinata, 22pPS-3,
23aPS-14
T. Ochiai, 23pE-5
M. Ode, 23pPS-3
T. Ogasawara, 24aC-6
D. Ogawa, 23pE-6
A. Ognev, 23aE-7, 23pE-3
N. Ognev, 23aE-7
Jung Hyun Oh, 22pA-3
Jun-ichiro Ohe, 21pC-2,
21pPS-13
N. Ohguchi, 22aPS-20
Y. Ohishi, 24pC-5
T. Ohkochi, 24pA-5
T. Ohkubo, 22aB-8, 22aC-1,
22aPS-5, 22pB-2, 23aD-4,
23pE-5, 24pE-1
K. Ohnishi, 22pPS-3
S. Ohnishi, 23pPS-17
H. Ohno, 22aB-7, 23aB-8
S. Ohno, 24pA-2

- S. Ohnuki, 23aPS-21
Y. Ohsawa, 21pA-2
R. Ohtaka, 23pB-8
M. Ohtake, 21pPS-4,
21pPS-5, 22aPS-16,
23pPS-2, 23pPS-30
Y. Oka, 24aPS-15
J. Okabayashi, 22aB-8,
24pB-6
H. Okada, 23pPS-4
S. Okada, 23aD-3
M. Okamoto, 22aPS-33
N. Okamoto, 21pC-3
S. Okamoto, 24pA-2
Y. Okamoto, 22aPS-31
K. Okamura, 23pPS-24
S. Okazaki, 23pC-2
S. Ono, 22aPS-7
T. Ono, 22aPS-20, 22pA-7,
22pC-1, 22pPS-6, 22pPS-7,
23aPS-23, 23aPS-33,
24aD-8, 24pA-5, 24pD-2
H. Onoda, 22pPS-12
R. Onodera, 23pPS-10
T. Onogi, 22aPS-12
M. Onoue, 21pPS-28,
21pPS-30
T. Onuma, 23aPS-29
M. Oogane, 23aA-1
M. Orito, 21pC-7
J. Ortega, 22pB-10
A. Osada, 22pC-1
T. Osanai, 24pC-4
D. Oshima, 22aE-6,
22pB-13, 22pC-4, 24pC-7
R. Oshima, 22pPS-2,
22pPS-3
S. Ota, 22aE-7, 22pE-6
K. Oyanagi, 21pC-4
E. Ozhinsky, 22aE-2
(P)
S. P, 24aPS-13
C. Padilla, 21pPS-39
Chi-Feng Pai, 22pA-2
S. Palanisamy, 22aE-8,
22pE-6, 24aPS-8, 24aPS-14
F. Pan, 22pA-1, 22pC-9,
22pPS-9
L. Pan, 23aPS-20
B. Park, 22pC-7
Byong-Guk Park, 21pC-5,
23aPS-15, 24aA-5
J. Park, 21pD-4
J. Park, 23aPS-5, 23aPS-40
K. Park, 24pC-2
Min Tae Park, 22pA-3
S. Park, 21pD-2, 22pPS-15
S. Park, 23aPS-9
Sang J. Park, 21pC-5
Seung-Young Park, 24aB-3
Tae-Eon Park, 24aB-4
S. Parkin, 23PL-1
T. Parvini, 22pB-7
A. Pashenko, 22aPS-11
A. Patel, 21pPS-34
S. Peng, 22pB-8, 22pB-11,
23aPS-11
N. Perov, 23pC-10,
23pPS-27
N. Perova, 23pPS-27
Manh-Huong Phan, 23pA-6
T. Phan, 22aE-9
Hong-Guang Piao, 23pB-1
K. Pinchuk, 23pPS-28
V. Plotnikov, 23pPS-28,
23pPS-29
Nurdiyantor Putra Prasetya,
21pPS-40
A. Prikhodchenko, 23pE-3
B. Purnama, 21pPS-40
D. Puspitarum, 24pC-7
(Q)
H. Qian, 23pD-10
B. Qiang, 21pC-6
D. Qu, 23aPS-25, 23aPS-30
(R)
A. R, 24aPS-13
G. Radnoczi, 23pC-10
M. Radovic, 22pB-8
C. Ragusa, 22pD-2
R. Rahmawati, 21pPS-40
M. Rajabali, 22pB-7
T. Rakhmatullaev, 22aC-4,
22aPS-21, 22aPS-22,
23aE-8, 23pPS-29
Madhumethra Ramasamy
Govindaraj, 24aPS-14
Madhumetra Ramasamy
Govindaraj, 22aE-8
A. Ray, 23aPS-35
Madhumethra R G,
24aPS-13
K. Rhie, 23aPS-5, 23aPS-6,
23aPS-40
S. Rhim, 23aPS-3, 23pB-3
N. Rini, 24pC-7
R. Risdiana, 23aC-4
D. Ristiyani, 24aB-6
R. Riyatun, 21pPS-40
K. Rogachev, 22aC-4,
22aPS-21, 22aPS-22,
23aE-7, 23aE-8
P. Romagnoli, 21pPS-39
M. Ruben, 22aD-3
B. Ruck, 24aD-3
N. Rueangnetr, 23aE-3
(S)
L. S, 24aPS-13
L. Safriani, 23aC-4
M. Sagawa, 21PL-1
K. Saijo, 23aB-8
A. Saito, 23pD-5, 23pD-6,
23pD-8
H. Saito, 22pPS-19
M. Saito, 22aPS-5, 22aPS-20,
22pB-2
S. Saito, 22aPS-28,
22aPS-29, 22pPS-16,
23pPS-17
T. Saito, 23aD-6
T. Saito, 24aPS-1
H. Sakaguchi, 22pPS-23
A. Sakai, 24aPS-16
S. Sakai, 21pPS-7
S. Sakamoto, 23pA-5
T. Sakamoto, 23aPS-22
T. Sakane, 24aPS-11
Y. Sakuraba, 21pB-7,
21pC-4, 21pC-7, 21pPS-34,
22aB-6, 23aPS-35
S. Sakurai, 23aD-2, 23pD-3,
24aPS-1
A. Samardak, 22aC-4,
22aPS-21, 22aPS-22,
23aE-7, 23aE-7, 23aE-8
S. Samchenko, 23pPS-27
H. Sameshima, 24pE-4,
24pE-5
R. Sankoda, 22aPS-13,
22aPS-15
I. Sapovskii, 22aPS-21,
22aPS-22, 23aE-8,
23pPS-29
I. Sapovsky, 22aC-4
T. Saragi, 23aC-4
D. Sari, 24aB-6
Dita Puspita Sari Sari,
23aC-4
E. Sari, 22aE-6, 24pC-7
T. Sasagawa, 23pC-2
T. Sasaki, 21pC-4
S. Sasakura, 21pPS-14,
24pA-5
T. Sasayama, 22pE-5,
24aPS-7
H. Sato, 23pC-6
K. Sato, 22aPS-3, 22pB-12
K. Sato, 23pPS-9
M. Sato, 23pPS-1
T. Sato, 23pPS-1
Y. Sato, 21pPS-27
T. Satoh, 21pPS-19,
23aPS-28, 23aPS-33
T. Satoh, 22pPS-11
K. Sawada, 21pPS-9
Y. Sawada, 22pPS-3
T. Scheike, 22aC-1,
22aPS-17
S. Seino, 22pE-4, 24aPS-11,
24pC-5
T. Seki, 21pC-3, 21pPS-23,
22aB-8, 22aPS-18, 23aE-5,
23aPS-34
K. Sekiguchi, 21pPS-2,
21pPS-3, 21pPS-4,
21pPS-5, 21pPS-6
M. Sekino, 23pB-4
C. Seol, 22pPS-15
H. Sepehri-Amin, 22aPS-4,
23aD-4, 23pD-9
T. Shapaeva, 23pPS-27
U. Shashank, 22pB-7
Shyh-Shyuan Sheu, 21pB-6
T. Shibuya, 22aE-4, 24aPS-9,
24aPS-10
L. Shifa, 22pC-5
M. Shiga, 23pA-5
T. Shiga, 21pC-4
S. Shikano, 22aPS-7

- Je-Ho Shim, 23pB-1
M. Shima, 22aPS-7,
22aPS-20
T. Shima, 23pPS-7,
23pPS-19
Y. Shimakawa, 24aD-8
K. Shimamura, 22aPS-7
Y. Shimazaki, 21pB-7
S. Shimizu, 24aPS-16
Hee Jun Shin, 23pB-1
Kyung-Ho Shin, 21PL-2
Hyeon-Jae Shine, 24aPS-4
T. Shinohara, 23pD-9
T. Shinshi, 22aPS-15,
23pPS-23, 23pPS-24
Y. Shiota, 22pA-4, 22pC-1,
22pPS-6, 22pPS-7,
23aPS-23, 24aD-8, 24pD-2
C. Shirai, 24pC-4
M. Shirai, 23aPS-16
T. Shirai, 23pD-5
K. Shiraki, 23pPS-14,
23pPS-16
Y. Shiratsuchi, 24aE-1,
24aE-2, 24pE-4, 24pE-5
T. Shirokura, 22pB-2
S. Shirotori, 21pPS-31
A. Shishelov, 22aPS-23,
23pE-3
G. Shukla, 22pB-3, 22pB-4
K. Simalaotao, 21pB-7
I. Skorvanek, 24aC-5
A. Smekhova, 23aC-1
E. Smirnov, 23pPS-18
M. Sobirov, 22aC-4,
22aPS-21, 22aPS-22,
23aE-7, 23aE-8
Y. Sobukawa, 23pE-7
M. Sonehara, 23pPS-1
C. Song, 22pA-1, 22pB-6,
22pC-9, 22pPS-9, 23aPS-41
Y. Song, 21pA-5
M. Spethmann, 21pPS-26
A. Spiesser, 21pB-5, 22aC-3
R. Sriyapai, 23aE-3
P. Stano, 21pPS-26
Z. Su, 22aB-10
T. Subagja, 23aD-4
L. Subbiah, 22aE-8, 22pE-6,
24aPS-8, 24aPS-14
S. Sudarmono, 24pC-8
T. Suemasu, 22aPS-14,
23pE-6, 23pE-7
A. Sugihara, 24pE-1
S. Sugimoto, 22aB-4,
22aPS-4, 23aB-7
I. Sugiura, 23aPS-33, 24pA-5
H. Sugiyama, 22aPS-7
S. Suharno, 21pPS-40
E. Suharyadi, 22aE-6,
22pC-5, 24pC-7, 24pC-8
H. Sukegawa, 22aB-8,
22aC-1, 22aPS-17,
23aPS-1, 24pB-6
S. Sumi, 22aPS-19,
22pPS-23, 23aPS-10
A. Sumiyoshiya, 22pB-4
S- Sun, 22aB-10
W. Sun, 22aC-5, 23pD-10
Y. Sun, 24aPS-7
H. Suto, 21pC-4, 22aB-6
K. Suzaki, 24aPS-10
K. Suzuki, 22pD-3
K. Suzuki, 23aPS-16
K. Suzuki, 23pE-4
K. Suzuki, 24pC-5
M. Suzuki, 21pPS-14,
24pA-5
R. Suzuki, 22pC-10
Y. Suzuki, 22aPS-26
P. Svec, 24aC-5
P. Swastika, 22pC-5
M. Syakuur, 23aC-4
(T)
H. Ta, 22aE-9
T. Taaev, 23pC-10
Y. Tabata, 21pC-7
Y. Tabata, 24pC-3, 24pC-6
K. Tada, 22aPS-26
S. Tada, 23aD-2
T. Tadano, 21pB-8
K. Taga, 22pC-1
K. Taguchi, 21pC-7
G. Tahara, 23pPS-21,
23pPS-23, 23pPS-26
K. Tajima, 23aD-2, 23pD-3,
24aPS-1
H. Takabayashi, 24aC-6,
24aC-8
K. Takagi, 24pC-1
S. Takagi, 22pPS-17,
23aPS-2
M. Takahashi, 22aE-5,
24aPS-16
S. Takahashi, 22aB-3,
22pB-13
S. Takahashi, 23aPS-28,
24pA-5
Y. Takamura, 22aPS-5,
22pB-2
K. Takanashi, 23pE-4
H. Takano, 22pB-9,
22pB-10, 22pC-3
R. Takano, 23pB-7
T. Takasu, 23pPS-13,
24aPS-5
K. Takemura, 21pPS-14,
24pA-5
Y. Takemura, 22aE-7,
22pE-6, 24aPS-9, 24aPS-10
K. Takeo, 22aPS-8
T. Takeuchi, 23aPS-36
Y. Takeuchi, 22aPS-4
H. Takeya, 23pD-8
M. Takii, 23pB-6, 23pB-8
F. Tamanoi, 22aE-9
S. Tamaru, 22pD-4, 23pA-5,
23pE-5
K. Tanabe, 22aPS-19,
22pPS-21, 23aPS-7,
23aPS-10, 23aPS-31,
23aPS-32, 23aPS-36
A. Tanaka, 23pC-3
A. Tanaka, 24aPS-9
A. Tanaka, 24aPS-11
H. Tanaka, 22pPS-20
M. Tanaka, 23aPS-22
M. Tanaka, 24aD-3
Md. Mahmudul Tanaka,
22aPS-5
T. Tanaka, 21pPS-25
T. Tanaka, 23aC-7
Y. Tanaka, 21pPS-14,
24pA-5
Y. Tanaka, 22aPS-5
Ke-Xiang Tang, 22aPS-24
Wan-Sheng Tang, 23aPS-38
X. Tang, 23aD-4
Yu-Hui Tang, 21pPS-20,
22aPS-27, 23aPS-38
Z. Tang, 22pD-3
T. Taniguchi, 23pC-2
T. Taniyama, 21pPS-16,
21pPS-17, 22aPS-12,
22pPS-4
Y. Tao, 22pB-9, 22pB-10,
22pC-3
E. Tarasov, 22aPS-23
S. Tarucha, 21pPS-26,
21pPS-27
Y. Taryana, 21pPS-40
T. Tasaki, 23aB-8
M. Tashiro, 23pPS-14,
23pPS-16
K. Tatsuno, 22aPS-30
N. Terada, 23pD-9
Kim Kong Tham, 22aPS-28,
22aPS-29
S. Tian, 21pPS-39
Yu-Cheng Tien, 23aPS-25
L. Tjeng, 23pC-3
I. Tkachenko, 22aPS-23
V. Tkachev, 23pPS-28,
23pPS-29
M. Tobise, 23pPS-17
H. Todoroki, 23pPS-21,
23pPS-23, 23pPS-26
T. Togashi, 21pPS-14,
24pA-5
R. Toida, 23aPS-36
K. Toko, 23pE-7
F. Tokoro, 22pPS-6, 22pPS-7
T. Tokuyama, 23aPS-22
S. Tomita, 21pPS-9, 24pA-2
Y. Tomita, 24aC-6
L. Tonthat, 21pPS-32,
22pC-10
R. Toyama, 22aB-6
K. Toyoki, 24aE-1, 24aE-2,
24pE-4, 24pE-5
H. Tozuka, 23aPS-22
N. Tripathi, 22pB-5
S. Trisnanto, 24aPS-9,
24aPS-10
Cheng-Yu Tsai, 22aPS-32
Jai-Lin Tsai, 22aPS-32
Min-Hsun Tsai, 23aPS-17
V. Tsakaloudi, 22pD-2
Jyh-Shen Tsay, 24pE-2
Chih-Hsiang Tseng, 24aD-8
Yu-Sheng Tseng, 21pPS-20

- Yuan-Chieh Tseng, 21pB-4,
21pB-6, 22pC-2, 23pD-7,
24pE-3
- S. Tsuboguchi, 22pPS-2,
23aPS-18
- K. Tsuei, 23pC-3
- M. Tsujikawa, 23aPS-16
- Y. Tsujimoto, 24aE-1,
24aE-2
- A. Tsukamoto, 21pPS-14,
22aPS-9
- S. Tsunegi, 21pA-1
- T. Tsunematsu, 21pPS-28
- R. Tufan, 23aPS-16
- F. Tuo, 22pB-10, 22pC-3
- A. Turpak, 22aPS-11
- J. Twamley, 21pPS-39
- (U)
- A. Uchida, 23pD-5
- Ken-ichi Uchida, 21pC-4,
23aPS-35
- T. Ueda, 21pPS-9
- T. Ueno, 23aD-6
- R. Uesugi, 23pB-7
- K. Ujimoto, 24pE-4
- A. Ullah, 24pB-4
- R. Umetsu, 21pPS-25,
21pPS-28, 21pPS-29,
23aC-6, 23aC-8, 23aPS-34,
23pPS-13, 24aPS-5
- E. Ushijima, 23pPS-20
- U. Utari, 21pPS-40
- T. Uwano, 23aD-2
- J. Uzuhashi, 22aC-1,
22aPS-5, 22pB-2, 23pE-5,
24pE-1
- (V)
- A. Visona, 22pE-1
- (W)
- K. Wakabayashi, 23pPS-9
- T. Wakamura, 23pC-2
- T. Waki, 24pC-3, 24pC-6
- Bo-Yao Wang, 23aC-5
- C. Wang, 22pPS-10
- Chao-Chin Wang, 23pC-4
- H. Wang, 24aPS-7
- J. Wang, 24pC-2
- K. Wang, 22pD-1
- M. Wang, 22aE-3
- Meng-Chien Wang,
22aPS-25
- X. Wang, 23pC-3
- Y. Wang, 21pPS-8
- Y. Wang, 22aE-3
- Y. Wang, 23pE-3
- Yu-Chun Wang, 23aPS-25
- Z. Wang, 22aPS-10
- Z. Wang, 22pB-8, 22pB-11,
23aPS-11
- C. Warisarn, 23aE-2,
23aE-3, 23aE-4
- M. Washino, 24aPS-11
- H. Watanabe, 21pPS-19
- I. Watanabe, 24aB-6
- K. Watanabe, 23pC-2
- Der-Hsin Wei, 23aC-5
- Jeng-Hua Wei, 21pB-6
- J. Weinen, 23pC-3
- Z. Wen, 22aB-8, 22aC-1,
22aPS-17, 23aPS-1, 24pB-6
- S. Weng, 22aB-10
- U. Widyaishwari, 23aC-4
- S. Winarsih, 23aC-4
- D. Worledge, 21pA-4
- C. Wu, 22pD-1
- Han-Chun Wu, 22aPS-25
- Hsuan-I Wu, 24pB-2
- Jia-Jhen Wu, 22aPS-24
- Jong-Ching Wu, 23aPS-19
- M. Wu, 24aD-6
- Ming-Hsuan Wu, 23pC-4
- Te-ho Wu, 22aB-5,
23aPS-17, 23aPS-19
- Y. Wu, 21pB-1
- Y. Wu, 22pC-11
- Zhou-Yu Wu, 21pB-4,
21pB-6
- W. Wulfhedel, 24aB-1
- (X)
- E. Xiao, 21pB-8
- Y. Xie, 21pPS-22, 22aPS-1,
22aPS-6, 23aE-9, 23aPS-20,
23pE-8
- Z. Xin, 23pB-4
- L. Xu, 22pB-10
- X. Xu, 22pC-3
- Z. Xu, 22aE-3
- (Y)
- S. Yabukami, 21pPS-32,
22pC-10
- R. Yabushita, 22pB-13
- S. Yadav, 23aB-7
- T. Yagi, 21pC-4
- Y. Yahagi, 24pD-2
- S. Yakata, 21pPS-1
- K. Yakushiji, 21pA-1,
23pA-5, 23pE-5, 24pE-1
- K. Yamada, 21pPS-14,
23aPS-28, 23aPS-33,
24pA-5
- K. Yamada, 22aPS-7,
22aPS-20
- K. Yamada, 22pPS-2,
23aPS-18, 23aPS-27
- S. Yamada, 21pPS-11
- Toyo Kazu Yamada, 23pE-2
- Y. Yamada, 23pPS-5
- S. Yamaguchi, 21pPS-1
- W. Yamaguchi, 24pC-1
- Y. Yamaguchi, 23pPS-6
- I. Yamamoto, 23pPS-20
- M. Yamamoto, 23aD-2
- M. Yamamoto, 23pPS-5
- T. Yamamoto, 21pA-1,
23pA-5, 23pE-5, 24pE-1
- T. Yamamoto, 23pD-8
- K. Yamanoi, 21pPS-7,
21pPS-10, 21pPS-11,
22pPS-17, 23aPS-2,
23aPS-28, 23aPS-42,
24pD-3
- Y. Yamasaki, 23pC-7
- A. Yamashita, 22aPS-13,
22aPS-15, 23pPS-5,
23pPS-6, 23pPS-14,
23pPS-15, 23pPS-16,
23pPS-21, 23pPS-22,
23pPS-23, 23pPS-24,
23pPS-26
- F. Yamashita, 22aPS-13,
22aPS-15
- M. Yamashita, 22aD-2
- T. Yamashita, 24aD-4
- M. Yamato, 23pPS-20
- K. Yamaura, 23pC-3
- T. Yamazaki, 21pC-3,
22aPS-18, 23aE-5,
23aPS-34
- T. Yamazaki, 22aPS-2,
22pD-4
- T. Yamazaki, 23aPS-27
- Y. Yamazaki, 21pA-2
- M. Yan, 22pD-1
- P. Yan, 22aPS-10, 24aA-1
- H. Yanagihara, 22aPS-8,
22pPS-20, 23aPS-29,
23aPS-37, 23pC-7,
23pPS-10, 23pPS-31,
23pPS-32
- T. Yanai, 22aPS-13,
22aPS-15, 23pPS-5,
23pPS-6, 23pPS-14,
23pPS-15, 23pPS-16,
23pPS-21, 23pPS-22,
23pPS-23, 23pPS-24,
23pPS-26
- Y. Yanase, 22pPS-1, 22pPS-8
- H. Yang, 21pPS-22, 22aPS-1,
22aPS-6, 23aE-9, 23aPS-20
- H. Yang, 23pA-1
- H. Yang, 23pE-8
- S. Yang, 23aB-4, 24aB-3
- S. Yang, 24aC-4
- Sang-Sun Yang, 22pC-7
- Ting-Xun Yang, 24pE-2
- Tzu-Hsien Yang, 24pE-3
- Y. Yang, 22pPS-11
- T. Yasuda, 22aPS-14,
23pE-6, 23pE-7
- Y. Yasuda, 23aPS-10
- Y. Yasukawa, 24aC-3
- Lin-Xiu Ye, 22aB-5,
23aPS-17, 23aPS-19
- Z. Ye, 22pD-6
- Kuan-Hsiang Yeh, 24pE-3
- Sheng-Shiuan Yeh, 24aE-4
- W. Yin, 23aC-6
- H. Yoda, 21pA-2
- T. Yoda, 21pA-2
- T. Yoda, 21pA-2
- S. Yokouchi, 21pPS-4
- T. Yokoyama, 21pPS-27
- Jae-Gyeong Yoo, 21pD-5
- Jung-Woo Yoo, 24aD-5
- J. Yoon, 22aB-7
- J. Yoon, 22pE-2

Kyung-Shik Yoon, 23pPS-25
S. Yoon, 23aPS-15
B. York, 22pB-9, 22pB-10,
22pC-3, 23aPS-1
R. Yoshida, 21pPS-6
R. Yoshida, 23aD-2
S. Yoshida, 21pC-6
T. Yoshida, 22pE-5, 24aPS-7,
24aPS-16
Y. Yoshida, 23aD-2, 23pD-3,
24aPS-1
H. Yoshikawa, 21pPS-14,
22aPS-9
N. Yoshioka, 23pB-6,
23pB-8
Y. You, 23aPS-28, 23aPS-42
G. Yu, 21pPS-8, 22aPS-10,
24aA-2
H. Yu, 23aPS-34
S. Yu, 23aPS-5, 23aPS-6,
23aPS-40
H. Yuasa, 23aPS-12
S. Yuasa, 21pA-1, 21pB-5,
22aC-3, 22pPS-12,
22pPS-14, 23pE-5, 24pE-1
C. Yun, 23aPS-5, 23aPS-6

(Z)

Z. Zeng, 24aA-1
C. Zhang, 23aA-3
Fu-Chun Zhang, 24aE-4
H. Zhang, 24aPS-7
R. Zhang, 22aPS-3, 22pB-10,
22pC-3
T. Zhang, 23pE-3
X. Zhang, 22pB-6
X. Zhang, 22pD-1
Y. Zhao, 23pB-1
X. Zheng, 22pB-8, 22pB-11,
23aPS-11
W. Zhou, 21pC-7
Z. Zhou, 22pA-1
T. Zhu, 22aB-9
A. Zhukov, 22pC-8, 23pPS-8
V. Zhukova, 22pC-8,
23pPS-8
M. Zou, 23aPS-20
R. Zou, 22aPS-1
Z. Zurnansyah, 22pC-5

Pulse Field Magnetometry



TPM-2-08s25



Sample size
max $\phi 10$ mm

Magnetic field
max 8 Tesla

Measurement temperature
RT - 200degC

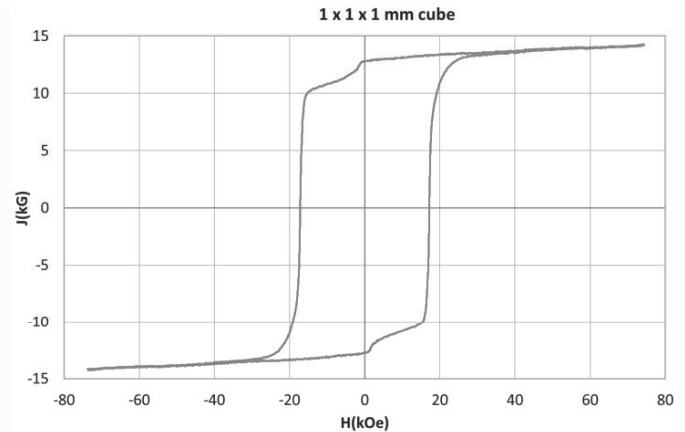
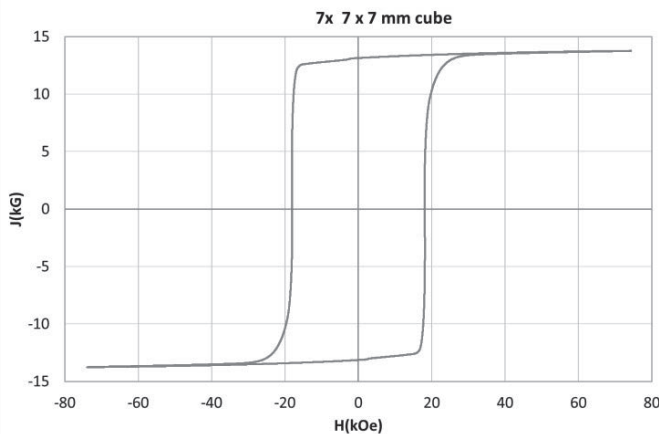
Achieving 3σ / Ave. 0.2%*1

Eddy current correction has also been established*2

※1 Refer IEEJ MAG-18-088

※2 Refer IEEJ MAG-07-11

Measurement examples of NdFeB(sintered)



1x1x1mm cube detection coil is available
as an optional accessory

We also offer various magnetic measurement devices,
including Vibrating Sample Magnetometer (VSM)
and DC Recording Fluxmeter (Compliant with IEC60404-5)

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