MMM 2026

71st ANNUAL CONFERENCE ON Magnetism and Magnetic Materials

November 2 – 6, 2026 | www.magnetism.org

Honolulu, Hawaii

Hilton Hawaiian Village Waikiki Beach Resort

PROGRAM BOOK

As of October 27, 2026

Jointly sponsored by AIP Publishing LLC and the IEEE Magnetics Society

IEEE MAGNETICS

AIP Publishing

SCOPE OF THE CONFERENCE

The 71st Annual Conference on Magnetism and Magnetic Materials (MMM 2026) is sponsored jointly by AIP Publishing and the IEEE Magnetics Society. Members of the international scientific and engineering communities interested in recent developments in fundamental and applied magnetism are invited to attend and contribute to the technical sessions. The technical program will include invited and contributed papers in oral and poster sessions, invited symposia, a tutorial, and several special sessions. This Conference provides an outstanding opportunity for worldwide participants to meet, share their research, and to discuss and learn about the most recent developments in all areas of magnetism research.

CONFERENCE INFORMATION

LOCATION: **Hilton Hawaiian Village Waikiki Beach Resort**

MOBILE APP: The **MyItinerary by ScholarOne** mobile app and online desktop planner provide attendees with instant access to the entire Conference program including abstracts, speakers, and the schedule of events. You can also use it to build your own customized schedule and to get in touch with other attendees. Download the free app before you arrive!

- Mobile Web App Link: https://ativ.me/10dp
- Desktop Planner Link: https://ativ.me/10dq

CONFERENCE MATERIALS:

- Program Overview
- Symposia and Invited Speakers
- Program Book
- Abstracts Book will be posted once available.
- Special Events & Sessions
- Wellness Activities

SOCIAL MEDIA LINKS:

CONFERENCE SUPPORTERS & EXHIBITORS: View Confirmed Partners & Exhibitors

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PROGRAM COMMITTEE

(Name in blue indicates Team Lead)

Category	First Name	Last Name	Institution
1. Fundamental Properties and Cooperative Phenomena	**Cheng**	**Gong**	**University of Maryland**
	Jun Woo	Choi	KIST
	Chiara	Ciccarelli	University of Cambridge
2. Magnetoelectronic Materials and Phenomena	**Yuya**	**Sakuraba**	**National Institute for Materials Science**
	Lakhan	Bainsla	Indian Institute of Technology Ropar
	Michelle	Jamer	United States Naval Academy
3. Spintronics	**Felix**	**Casanova**	**CIC nanoGUNE**
	Pedram	**Khalili Amiri**	**Northwestern University**
	Hans	**Nembach**	**NIST**
	Robert	Carpenter	Imec
	Satoru	Emori	Virginia Tech
	Olena	Gomonay	Johannes Gutenberg University Mainz
	Marcos	Guimaraes	University of Groningen
	Sanghoon	Kim	University of Ulsan
	Saima	Siddiqui	Intel
	See-Hun	Yang	IBM Research - Almaden
	Jiadong	Zang	University of New Hampshire
4. Magnetization Dynamics and Micromagnetics	**Markus**	**Münzenberg**	**University of Greifswald**
	Shehrin	**Sayed**	**TDK Headway Technologies, Inc.**
	Shigemi	Mizukami	Tohoku University
	Yuta	Sasaki	National Institute for Materials Science (NIMS)
	Dieter	Suess	University Vienna
	Pramey	Upadhyaya	University of Purdue
5. Soft Magnetic Materials	**Satoshi**	**Okamoto**	**Tohoku University**
	Jae won	Jeong	Korea Institute of Materials Science
	Ulrich	Soupremanien	CEA-LITEN
6. Hard Magnetic Materials	**Yusuke**	**Hirayama**	**National Institute of Advanced Industrial Science and Technology (AIST)**
	Nora	Dempsey	Institut Néel CNRS
	Tae-Hoon	Kim	Korea Institute of Materials Science
7. Structured Materials	**Jeffrey**	**McCord**	**Kiel University**
	Paola	**Tiberto**	**INRIM**
	Yuko	Ichiyanagi	The University of Osaka
	Sabri	Koraltan	Technische Universität München
	Witold	Skowronski	AGH University of Krakow
	Robert	Streubel	University of Nebraska-Lincoln
8. Multi-Functional Magnetic Materials and Applications	**Fanny**	**Béron**	**Universidad Estadual de Campinas**
	Joao	Belo	IFIMUP
	Simon	Granville	Victoria University of Wellington

Category	First Name	Last Name	Institution
9. Magnetic Recording, Storage and Computing	**Vaishnavi**	**Kateel**	**imec**
	Vitaliy	**Lomakin**	**University of California, San Diego**
	Tamalika	Banerjee	University of Groningen
	Debanjan	Bowmik	IIT Bombay
	Michael	Donahue	National Institute of Standards and Technology
	Shunsuke	Fukami	Tohoku University
	Niranjan	Natekar	Western Digital
	Thomas	Schrefl	University for Continuing Education Krems
	Weigang	Wang	University of Arizona
10. Sensors, High Frequency Devices and Power Devices	**Nicoleta**	**Lupu**	**National Institute of R&D for Technical Physics**
	Hatem	ElBidweihy	United States Naval Academy
	Aurélie	Solignac	CEA
11. Interdisciplinary and Emerging Topics	**Ravi**	**Hadimani**	**Virginia Commonwealth University**
	Martin	Lonsky	Nexperia
	Celia	Sousa	Autonomous University of Madrid
	Kai	Wu	University of South Florida
12. Magnetic Characterization	**Emmanuelle**	**Jal**	**CNRS, Sorbonne Université**
	Agustina	Asenjo	Consejo Superior de Investigaciones Cientificas
	Takahiro	Yamazaki	Yokohama National University

SESSION CHAIRS

Session	First Name	Last Name	Institution
AA: Beyond the Limits: Next-Generation Innovations in Hard Disk Drive Technology	Stephanie	Hernandez	Seagate Technology
	Aneesh	Venugopal	Seagate Technology
AB: Magnetic Materials Design and Discovery	Hao	Zeng	University of Buffalo
AC: Two-Dimensional Magnetism	Cheng	Gong	University of Maryland
AD: 3D, Patterned and Layered Magnetism	Zhijie	Chen	Georgetown University
AE: Measurements Techniques	Sebastian	Gliga	Paul Scherrer Institut
AF: Terahertz, Altermagnetic and Antiferromagnetic Spintronics	Abdelghani	Laraoui	University of Nebraska-Lincoln
AG: Spin-Charge Interconversion	Christian	Rinaldi	Politecnico di Milano
AP: Rare-Earth Permanent Magnetic Materials	Yasutomi	Tatetsu	Meio University
AQ: Emerging Magnetic Sensors and Functional Electromagnetic Systems	Changgeng	Zhang	Hebei University of Technology
AR: Ultrafast Magnetism, Magnonics and Spin Dynamics I	Yuta	Sasaki	National Institute for Materials Science (NIMS)
BA: Magnetism for Biomedicine: From Biological Systems and Functional Materials to Therapy	Paola	Tiberto	INRIM
BB: Orbitronics Meets Spintronics: Interplay between Orbital and Spin Angular Momenta	Kyung-Jin	Lee	Korea Advanced Institute of Science and Technology (KAIST)
	Tatiana	Rappoport	INL Braga
BC: Emerging Magnetic Phenomena in Low-Dimensional Systems	Suman	Itani	University of New Hampshire

Session	First Name	Last Name	Institution
BD: Heat Assisted Magnetic Recording	Stephanie	Hernandez	Seagate Technology
	Vitaliy	Lomakin	University of California, San Diego
BE: Imaging, Sensing and Electromagnetic Devices	Ron	Goldfarb	National Institute of Standards and Technology
BF: Altermagnetic and Antiferromagnetic Spintronics I	Jaimin	Kang	Northwestern University
BG: Magneto-Optical Coupling in Functional Magnetic Materials and Devices and Hard Magnetic Materials IV: Nanoparticles and Rare-Earth-Free Magnet Design	Wilhelmus J.	Geerts	Texas State University
	Kwangjae	Park	National Institute of Advanced Industrial Science and Technology
BP: Magnetoresistance and Spin Injection	Ezio	Iacocca	University of Colorado Colorado Springs
BQ: Advanced Permanent Magnet and Induction Machine Technologies	Jianqiao	Xiao	Hinetics Inc.
BR: Ultrafast Magnetism, Magnonics and Spin Dynamics II	Tomosato	Hioki	The University of Tokyo
CA: Magnetic Random-Access Memories: What's Coming Next?	Jean Pierre	Nozieres	CNRS
CB: Seeing Magnetism Differently: Emerging Phases Revealed by Advanced X-Ray Imaging	Lisa-Marie	Kern	Massachusetts Institute of Technology
	Kai	Litzius	University of Augsburg
CC: Van der Waals Magnets and Materials	Hiromi	Yuasa	Kyushu University
CD: Biomagnetism and Biomedical Applications I	Ravi	Hadimani	Virginia Commonwealth University
CE: Magnetic Sensors and High-Frequency Devices	Shin	Yabukami	Tohoku University
CF: Superconducting and Antiferromagnetic Spintronics	Hanu	Arava	Argonne National Laboratory
CG: Orbitronics	Eric	Montoya	University of Utah
CH: Ultrafast I	Anulekha	De	Tohoku University
CP: Rare-Earth-Free Permanent Magnetic Materials	Akihide	Hosokawa	National Institute of Advanced Industrial Science and Technology
CQ: Permanent Magnet Machines: Design, Modeling and Optimization	A.P.S,	Baghel	Ames National Laboratory
CR: Unconventional Computing and Magnetic Memories I	Peng	Wang	University of Manchester
CS: Magnetic Structures and Nanocomposites	Sabri	Koraltan	Technische Universität München
DA: Re-Imagining Spintronic Logic	Jean Anne	Incorvia	The University of Texas at Austin
	Siddharth	Rao	Interuniversitair Micro-Elektronica Centrum
DB: Altermagnetism: Superconductivity and P-Wave Magnets	Max	Hirschberger	The University of Tokyo
	Helena	Reichlova	Institute of Physics, CAS
DC: Multiferroic Materials and Magneto-Ionics	Shuai	Dong	Southeast University
	Bhagwati	Prasad	Indian Institute of Science Bengaluru
	Yayoi	Takamura	University of California, Davis
DD: Soft Magnetic Materials I	Jae won	Jeong	Korea Institute of Materials Science
	Satoshi	Okamoto	Tohoku University
DE: Magnetic Sensors, Energy Harvesters and Power Devices	Alberto	Bellini	Alma Mater Studiorum, University of Bologna

Session	First Name	Last Name	Institution
DF: Magnetoresistance I	Yi	Li	Argonne National Laboratory
DG: Magnonics I	Daniel	Hart	Southern University and A & M College
DH: Domains, Skyrmions and Magnetic Textures	Pramey	Upadhyaya	University of Purdue
DP: Soft Magnetic Materials II	Takuya	Taniguchi	Tohoku University
DQ: Electromagnetic Machines and High-Frequency Power Technologies	Niranjan	Natekar	Western Digital
DR: Spintronics and Orbitronics	Dongwook	Go	Korea University
	Byong-Guk	Park	KAIST
DS: Domain Wall Memory and Magnetic Components for Next-Generation Technologies	Vijaysankar	Kalappattil	Northeastern University
	Shehrin	Sayed	TDK Headway Technologies, Inc.
EA: Intelligent Magnetic Technologies: From Materials to Systems	Jayasimha	Atulasimha	Virginia Commonwealth University
	Sonal	Shreya	Aarhus University
EB: Frontiers in Magnetic Refrigeration Across Scales: Materials, Mechanisms and Devices	Steffen	Säubert	kiutra GmbH
EC: Hard Magnetic Materials I: High-Coercivity and Rare-Earth-Efficient Nd-Fe-B Magnets	Wei	Tang	Ames National Laboratory
	Stanley	Trout	Spontaneous Materials
ED: AI/Machine Learning for Magnetism, Half-Metals and Magnetic Semiconductors	Takahide	Kubota	Tohoku University
	Jadupati	Nag	University of South Florida
	Yan	Zhou	The Chinese University of Hong Kong, Shenzhen
EE: Complex Magnetic Orders and Spin Textures	Roopali	Kukreja	University of California, Davis
	Yu	Tao	University of Minnesota
EF: Altermagnetic and Antiferromagnetic Spintronics II	Sanghoon	Kim	University of Ulsan
EG: Spin Dynamics and Magnonics	Yoichi	Shiota	Kyoto University
EP: Soft Magnetic Materials III	Hiroshi	Tsukahara	Tohoku University
EQ: New Applications and Other Emerging Topics II	Masaki	Sekino	The University of Tokyo
ER: Biomagnetism and Biomedical Applications II	Jenifer	Gomez-Pastora	Texas Tech University
FA: Integrated Magnetics for Power Distribution in Next-Gen Chips and Devices	Samuel	Oberdick	National Institute of Standards and Technology
FB: New Trends in Magnonics: Engineered Nonequilibrium Dynamics in Magnetic Systems	Sebastian	Wintz	Helmholtz-Zentrum Berlin für Materialien und Energie
FC: New Applications and Other Emerging Topics I	Ahmed	El-Gendy	The University of Texas at El Paso
	Kai	Wu	University of South Florida
FD: Unconventional Computing and Magnetic Memories II	Niranjan	Natekar	Western Digital
FE: Topological Materials, Chiral Magnets and Correlated Systems	Rui	He	The University of Texas at Arlington
FF: Magnetoresistance and Spin Transport	Samuel	Liu	NIST
FG: Magnetic Interactions and Spin Dynamics	Dieter	Suess	University Vienna
FP: Interfaces and Functional Properties in Magnetic Nanostructures	Franca	Albertini	IMEM-CNR
	Paola	Tiberto	INRIM
FQ: Multiferroic and Half-Metallic Materials	Takayuki	Hojo	Tohoku University

Session	First Name	Last Name	Institution
	Akhilesh	Patel	National Institute for Materials Science
FR: Low Dimensional Magnetism, Complex Phases, Topology and Chirality	Hao	Zeng	University of Buffalo
GA: Spin-Charge-Photon Conversion: From LEDs to Lasers	Haipeng	Lu	The Hong Kong University of Science and Technology
	Yuan	Lu	Institut Jean Lamour, CNRS
GB: Exploring the Effects of Reduced Dimensionality on Frustrated Quantum Magnets	Jason	Gardner	ORNL
GC: Ultrafast II	Helena	Reichlova	Institute of Physics of the Czech Academy of Sciences
GD: Hard Magnetic Materials II: Next-Generation Permanent Magnets	Ikenna	Nlebedim	Ames National Laboratory
	Xin	Tang	National Institute for Materials Science (NIMS)
GE: Coupled-Field Functional Magnetics: Magnetoelastic, Magnetocaloric and Beyond	João	Amaral	Universidade de Aveiro
GF: Topological Materials and Spin Textures	Tatiana	Rappoport	INL Braga
	Zhenchao	Wen	National Institute for Materials Science (NIMS)
GG: Magnonics II	Timo	Kuschel	Johannes Gutenberg University Mainz
GP: Skyrmions, Topology and Chirality	Hanu	Arava	Argonne National Laboratory
	Chandrasekhar	Murapaka	IIT Hyderabad
GQ: Altermagnetic, Antiferromagnetic, Terahertz and Superconducting Spintronics I	Sonal	Shreya	Aarhus University
GR: Magnetic Characterization	Emmanuelle	Jal	CNRS, Sorbonne Université
	Mathieu	Mivelle	CNRS/Sorbonne University
HA: Magnetism and the Brain: Neuromodulation, Neuroimaging and Novel Applications	Kai	Wu	University of South Florida
HB: Quantum Magnetism in Nanostructures	Qiang	Zhang	ORNL
HC: Magnetoelectronic Materials and Heterostructures	Peter	Finkel	Naval Research Laboratory
HD: Hard Magnetic Materials III: AI-Driven Design and Engineering of Permanent Magnets	Tae-Hoon	Kim	Korea Institute of Materials Science
HE: Emergent Magnetic Functionalities in Thin Films and Nanostructures	Yuko	Ichiyanagi	The University of Osaka
HF: Skyrmions	Yan	Zhou	The Chinese University of Hong Kong, Shenzhen
HG: Magnonics III	Silvia	Viola Kusminskiy	RWTH Aachen University
HP: Magnetics for Power Electronics and Control	Nicoleta	Lupu	National Institute of R&D for Technical Physics
HQ: Altermagnetic, Antiferromagnetic, Terahertz and Superconducting Spintronics II	Jordan	Athas	Northwestern University
HR: Advances in Functional Magnetism: Materials and Applications	Andoni	Lasheras	University of the Basque Country
	Alberto	Mendonça	Universidade Estadual de Campinas

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Term expiring December 2026
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Term expiring February 2028
Dustin Gilbert, Thomas Feggeler, Ron Goldfarb, Minn-Tsong Lin, Aurelien Manchon, Tiffany Santos, Jordi Sort, Yuri Suzuki, Hyunsoo Yang, Jianhua Zhao

Term expiring December 2028
Fanny Béron, Jack Gartside, Axel Hoffmann, Diana Leitao, Hendrik Ohldag, Helena Reichlova, José Israel Betancourt Reyes, Yukiko Takahashi, Kai Wu, Mingzhong Wu

FUTURE CONFERENCES

2027 INTERMAG Conference » May 10 - 14, 2027 » Jeju Island, South Korea

23rd International Conference on Magnetism (ICM) » June 14 – 18, 2027 » San Juan, Puerto Rico

2028 Joint MMM-INTERMAG Conference » January 10 – 14, 2028 » Vancouver, Canada

2028 MMM Conference » October 30 – November 3, 2028 » San Antonio, Texas, USA

TU: TUTORIAL: APPLICATIONS OF MAGNETIC MICRO/NANO ROBOTS
Chair(s): C. Dennis, *National Institute of Standards and Technology, Gaithersburg, Maryland, United States*
Monday, November 2, 2026
02:30 PM-05:00 PM
Coral 3

02:30 PM-03:20 PM
TU-01. Electromagnetically Controllable Micro/Nanorobots for Precise Robotic Interventions and Cell Therapies
H. Choi
Department of Biomedical Engineering, University of Massachusetts Amherst, Amherst, Massachusetts, United States

03:20 PM-04:10 PM
TU-02. Design Principles for Untethered Magnetic Microrobots in Bounded Fluid Environments
E. Evans
Elon University, Elon, North Carolina, United States

04:10 PM-05:00 PM
TU-03. Magnetic Small Scale Wireless Robots for Noninvasive Medical Applications
V. Magdanz
University of Waterloo, Waterloo, Ontario, Canada

WELCOME RECEPTION
Monday, November 2, 2026
05:00 PM-07:00 PM
Great Lawn
Supported by

SESSION AA: BEYOND THE LIMITS: NEXT-GENERATION INNOVATIONS IN HARD DISK DRIVE TECHNOLOGY
Co-Chair(s): S. Hernandez, *Seagate Technology, Bloomington, Minnesota, United States* and A. Venugopal, *Seagate Research, Seagate Technology, Edina, Minnesota, United States*
Tuesday, November 3, 2026
08:30 AM-12:00 PM
Coral 3
Supported by

08:30 AM-09:06 AM
AA-01. Performance Limits and Design Optimization of Vector Recording
R. H. Victora, K. Hosen
ECE, University of Minnesota, Minneapolis, Minnesota, United States

09:06 AM-09:42 AM
AA-02. Developments in Three-Dimensional Magnetic Recording
S. Greaves[1], H. Suto[2], Y. Nakamura[3], Y. Kanai[4]
[1]Tohoku University, Sendai, Japan, [2]NIMS, Tsukuba, Japan, [3]Ehime University, Matsuyama, Japan, [4]Niigata Institute of Technology, Kashiwazaki, Japan

09:42 AM-10:18 AM
AA-03. Advances in Heat-Assisted Magnetic Recording (HAMR) for High-Capacity Data Storage and Beyond HAMR Technologies
Y. Quessab
Recording Media Operations, Seagate Technology, Fremont, California, United States

10:18 AM-10:45 AM
Break

10:45 AM-11:21 AM
AA-04. Thermal spin-torque heat-assisted magnetic recording for large data storage in HDDs
S. Isogami[1], Y. Sasaki[1], Y. Fan[2], Y. Kubota[3], J. Gadbois[2], K. Hono[1], Y. K. Takahashi[1, 4]
[1]NIMS, Tsukuba, Japan, [2]Advanced Technology Development, Seagate Technology, Bloomington, Minnesota, United States, [3]Recording Media Organization, Seagate Technology, Fremont, California, United States, [4]RIEC, Tohoku University, Sendai, Japan

11:21 AM-11:33 AM
AA-05. Atomistic Modeling of Picosecond All-Optical Magnetization Switching
R. Hao, R. H. Victora
University of Minnesota, Minneapolis, Minnesota, United States

11:33 AM-11:45 AM
AA-06. Thermal stability in dual-layer granular FePt media for heat assisted magnetic recording
A. Bolyachkin[2], J. Duan[1], H. Sepehri-Amin[2], V. Lomakin[1]
[1]ECE, University of California, San Diego, La Jolla, California, United States, [2]National Institute of Material Science, Tsukuba, Japan

11:45 AM-11:57 AM
AA-07. The effect of reader undershoot on HAMR pre-channel and ADC performance
N. A. Natekar, T. Olson, G. Baiao De Albuquerque, V. Le, K. Tanahashi
Western Digital, San Jose, California, United States

SESSION AB: MAGNETIC MATERIALS DESIGN AND DISCOVERY
Chair(s): H. Zeng, *Physics, University of Buffalo, Buffalo, New York, United States*
Tuesday, November 3, 2026
08:30 AM-12:00 PM
Coral 5
Supported by

08:30 AM-09:06 AM
AB-01. Rare-Earth-Free Permanent Magnet Discovery through Quantum Simulations and Machine Learning
J. Chelikowsky[1, 2]
[1]Physics, University of Texas at Austin, Austin, Texas, United States, [2]Oden Institute, University of Texas at Austin, Austin, Texas, United States

09:06 AM-09:42 AM
AB-02. Large language models for magnetic materials prediction
J. Zang
University of New Hampshire, Durham, New Hampshire, United States

09:42 AM-09:54 AM
AB-03. A Framework for Altermagnet Discovery Unifying Experimental Databases, Graph Neural Networks, and Symmetry Screening
B. Schoener[1], Y. Liu[1], P. Zhang[1], J. Xiong[2, 3], I. Zutic[1], H. Zeng[1]
[1]Physics, University at Buffalo, Buffalo, New York, United States, [2]Institute for Artificial Intelligence and Data Science, University at Buffalo, Buffalo, New York, United States, [3]Computer Science and Engineering, University at Buffalo, Buffalo, New York, United States

09:54 AM-10:06 AM
AB-04. Incorporating Magnetism into High-Throughput Crystal Structure Prediction Procedures
J. E. Griffiths[1], M. Dyer[1, 2], G. Darling[1], M. Rosseinsky[1, 2]
[1]Chemistry, The University of Liverpool, Liverpool, Merseyside, United Kingdom, [2]Leverhulme Research Centre for Functional Material Design, Liverpool, Merseyside, United Kingdom

10:06 AM-10:18 AM
AB-05. Magnetic Molecular Dynamics and Foundation Models for Metalic Magnetic Materials
B. Xu
Tsinghua University, Beijing, China

10:18 AM-10:45 AM
Break

10:45 AM-11:21 AM
AB-07. Computational electronic structure-based search for stable magnetic systems: failures and successes
V. Antropov
Ames National Laboratory, Ames, Iowa, United States

11:21 AM-11:33 AM
AB-08. Digital twin of permanent magnet for simulation-guided microstructure optimization
N. Kulesh, A. Bolyachkin, T. Ohkubo, H. Sepehri-Amin
National Institute for Materials Science, Tsukuba, Japan

11:33 AM-11:45 AM
AB-09. Automated design exploration of two-dimensional magnonic crystals using a combinatorial optimization approach
R. Nagaoka[1], T. Yamazaki[2], C. Mitsumata[3], Y. Iwasaki[4], M. Kotsugi[1]
[1]Tokyo University of Science, Tokyo, Japan, [2]Yokohama National University, Yokohama, Japan, [3]University of Tsukuba, Tsukuba, Japan, [4]National Institute of Materials Science, Tsukuba, Japan

SESSION AC: TWO-DIMENSIONAL MAGNETISM
Chair(s): C. Gong, *University of Maryland, College Park, Maryland, United States*
Tuesday, November 3, 2026
08:30 AM-12:00 PM
Coral 1

08:30 AM-09:06 AM
AC-01. Raman Spectroscopy of Moiré Magnetism in Twisted Double Bilayer CrI_3 and Spin-Induced Nematicity in XY-Type Magnet $NiPS_3$
R. He
Texas Tech University, Lubbock, Texas, United States

09:06 AM-09:18 AM
AC-02. Magnetoelectric Effect in van der Waals Ferromagnetic/Ferroelectric Heterostructures
J. Eom[1], J. Lee[1], S. Park[2], J. Choi[1]
[1]Center for Spintronics, Korea Institute of Science and Technology, Seoul, Korea (the Republic of), [2]Department of Physics, Soonsil University, Seoul, Korea (the Republic of)

09:18 AM-09:30 AM
AC-03. Kondo Effect and Magnetic Properties of CVD-Grown Polycrystalline 1T-$V_{1-x}Fe_xSe_2$ Thin Films
V. Samanta, S. Chandran
Physics, Indian Institute of Technology Madras, Chennai, Tamil Nadu, India

09:30 AM-09:42 AM
AC-04. Space-Confined CVD Growth of Fe_3GeTe_2:Structural, Vibrational, and Magnetic Properties
B. P. Jena, S. Chandran
Department of Physics, IIT Madras, Chennai, Tamilnadu, India

09:42 AM-09:54 AM
AC-05. Orbital moment and spin dynamics in vanadium trihalides
J. Pospíšil[1], D. Hovančík[1], O. Michal[2], T. Haidamak[1], D. Repcek[2], F. Borodavka[2], P. Dolezal[1], M. Veis[1], S. Kamba[2], M. Orlita[3], V. Sechovsky[1]
[1]Charles University, Prague, Czechia, [2]Czech Academy of Sciences, Prague, Czechia, [3]Laboratoire National des Champs Magnétiques Intenses, Grenoble, France

09:54 AM-10:06 AM
AC-06. Nature of Electrical Transport in Quasi Two-Dimensional antiferromagnet SrRu2O6
A. Kumar, S. Nair, A. Bajpai
Physics, Indian Institute of Science Education and Research, Pune, Maharashtra, India

10:06 AM-10:18 AM
AC-07. Superconductivity and Emergent Magnetism in Yb-Intercalated Graphene with Site-Selective Valence States
R. Akiyama[4, 1], S. Sato[1], Y. Miyai[2], Y. Hashimoto[3], J. Jung[1], R. Hobara[1], Y. Kumar[2], A. Kumar[2], S. Shimizu[1], R. Minakawa[1], Y. Yamamoto[3], H. Tomita[3], T. Tadamura[3], T. Moriki[3], Y. Yamada[3], S. Ideta[2], K. Shimada[2], T. Matsushita[3], S. Hasegawa[1]
[1]The University of Tokyo, Tokyo, Japan, [2]Hiroshima University, Higashi Hiroshima, Japan, [3]Nara Institute of Science and Technology, Ikoma, Japan, [4]Kyoto University, Kyoto, Japan

10:18 AM-10:45 AM
Break

10:45 AM-10:57 AM
AC-08. Magneto-Electronically Coupled Quasiparticle States in Monolayered MoS_2 Driven by Proximity Effect of Ultrathin $SmFeO_3$
H. Chen, C. Hsieh, C. Yang
Material Science and Engineering, National Yang Ming Chiao Tung University, Hsinchu, Taiwan

10:57 AM-11:09 AM
AC-09. Studying the evolution of spin-polarized trion in monolayered MoS_2 via magnetic proximity effect of YIG
C. Hsieh, F. Chan, C. Yang
Material Science and Engineering, National Yang Ming Chiao Tung University, Hsinchu, Taiwan

11:09 AM-11:21 AM
AC-10. Magnetic Emergence in Van der Waals Materials
S. Gilbert Corder
Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, California, United States

11:21 AM-11:33 AM
AC-11. Novel characterization of spin waves in twisted CrSBr/CrSBr homostructures via DFT/QFT modeling and experiments
A. J. Winchell[1], P. Aislinn[1], E. Lambertson[2], T. Zuehlsdorff[2], A. Saenz Rodriguez[3], Z. Sofer[4], P. Dhagat[5], O. Ostroverkhova[1]
[1]Physics, Oregon State University, Corvallis, Oregon, United States, [2]Chemistry, Oregon State University, Corvallis, Oregon, United States, [3]Mathematics, Oregon State University, Corvallis, Oregon, United States, [4]Inorganic Chemistry, University of Chemistry and Technology Prague, Prague, Czechia, [5]Electrical Engineering and Computer Science, Oregon State University, Corvallis, Oregon, United States

11:33 AM-11:45 AM
AC-12. Quantum simulation of the Hubbard model on a graphene hexagon: strengths of IQPE and noise constraints
M. Mirzakhani, K. Moon
Dept. of Physics, Yonsei university, Seoul, Korea (the Republic of)

11:45 AM-11:57 AM
AC-13. Formation of Order in the Two-Dimensional DMI-Antiferromagnet $Ba_2CuGe_2O_7$
P. Wild[1], M. Dembski-Villalta[1], K. Fellner[1], M. Garst[2], S. Mühlbauer[1]
[1]TUM / MLZ, Munich, Germany, [2]KIT, Karlsruhe, Germany

SESSION AD: 3D, PATTERNED AND LAYERED MAGNETISM
Chair(s): Z. Chen, *Physics, Georgetown University, Washington, District of Columbia, United States*
Tuesday, November 3, 2026
08:30 AM-12:00 PM
Coral 2

08:30 AM-08:42 AM
AD-01. Magneto-thermoelectric effects in three-dimensional interconnected networks of ferromagnetic nanowires and nanotubes
T. da Câmara Santa Clara Gomes[1, 2], N. Marchal[2], F. Abreu Araujo[2], J. de la Torre Medina[3], L. Piraux[2]
[1]Instituto de Engenharia de Sistemas E Computadores – Microsistemas e Nanotecnologias (INESC MN), Lisbon, Portugal, [2]Institute of Condensed Matter and Nanosciences, Université catholique de Louvain, Louvain-la-Neuve, Belgium, [3]Instituto de Investigaciones en Materiales/Unidad Morelia, Universidad Nacional Autónoma de México, Morelia, Mexico

08:42 AM-09:18 AM

AD-02. 3D magnetic nanostructures and effects of curvature

D. Bhattacharya[1, 2], C. Langton[1], B. J. Fugetta[1], D. W. Raftrey[3, 4], C. Fernandez-Gonzalez[5], S. Satapathy[3], O. Bezsmertna[6], A. Sorrentino[5], D. Makarov[6], G. Yin[1], P. Fischer[3, 4], K. Liu[1]

[1]Physics Department, Georgetown University, Washington, District of Columbia, United States, [2]Rowan University, Glassboro, New Jersey, United States, [3]Materials Science Division, Lawrence Berkeley National Laboratory, Berkeley, California, United States, [4]University of California, Santa Cruz, Santa Cruz, California, United States, [5]ALBA Light Source, Barcelona, Spain, [6]Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany

09:18 AM-09:30 AM

AD-03. Influence of Mean and Gaussian Curvature on Magnetic Textures in 3D Nanowire Arrays

C. Langton[1], B. J. Fugetta[1], C. Fernandez-Gonzalez[2], A. Sorrentino[2], D. Bhattacharya[3], P. Fischer[4, 5], G. Yin[1], K. Liu[1]

[1]Department of Physics, Georgetown University, Washington, District of Columbia, United States, [2]MISTRAL Beamline, ALBA Light Source, Cerdanyola del Vallès, Spain, [3]Department of Electrical & Computer Engineering, Rowan University, Glassboro, New Jersey, United States, [4]Materials Science Division, Lawrence Berkeley National Laboratory, Berkeley, California, United States, [5]Department of Physics, University of California Santa Cruz, Santa Cruz, California, United States

09:30 AM-09:42 AM

AD-04. Ferromagnetic resonance in a strongly coupled 3D-stacked square artificial spin ice

A. Walters, E. Iacocca

University of Colorado Colorado Springs, Colorado Springs, Colorado, United States

09:42 AM-10:18 AM

AD-05. Reconfigurable 3D magnetic nanostructures and their prospective for magnonic networks

S. Wintz

Helmholtz-Zentrum Berlin, Berlin, Germany

10:18 AM-10:45 AM
Break

10:45 AM-10:57 AM

AD-06. Thin-Film Micrometer Scale Circular Halbach Patterns for Localized Field Generation

S. Kulakarni, A. El-Ghazaly

Electrical and Computer Engineering, Cornell University, Ithaca, New York, United States

10:57 AM-11:09 AM

AD-07. Nonlinear Minimizer for Artificial Spin Ice Using a Minimal Semi-Analytical Model

H. Braun, E. Iacocca

Physics, University of Colorado Colorado Springs, Colorado Springs, Colorado, United States

11:09 AM-11:21 AM

AD-08. Tunable Exchange Bias from Interfacial Spin Frustration in YIG/GGG

U. C. Thuwal[1], S. Maity[1], R. Pervin[1], R. Medwal[1], J. Vas[6], Y. Fukuma[2, 3], H. Courtois[5], C. B. Winkelmann[4], A. K. Gupta[1]

[1]Department of Physics, Indian Institute of Technology, Kanpur, Uttar Pradesh, India, [2]Kyushu Institute of Technology, Iizuka, Japan, [3]Center for Neuromorphic AI Hardware, Kitakyushu, Japan, [4]Univ. Grenoble Alpes, CNRS, Grenoble INP, IRIG-PHELIQS, Grenoble, France, [5]Univ. Grenoble Alpes, CNRS, Grenoble INP, Institut Neel, Grenoble, France, [6]The Ernst Ruska-Centre for Microscopy and Spectroscopy, Forschungszentrum Julich, Germany

11:21 AM-11:33 AM

AD-10. Modification of Interfacial Exchange Coupling and Magnetic Training in FeCo/CoO Heterostructures

R. Gupta[1], K. Sangeeth[1], A. Gupta[2]
[1]School of Instrumentation, Devi Ahilya University, Indore, Madhya Pradesh, India, [2]Department of Physics, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India

11:33 AM-11:45 AM

AD-11. Magnetic Vortex Microdots for Multistate Memory Enabled by NanoSQUID Readout

A. V. Pan, C. Eker
ISEM/Physics, University of Wollongong, Wollongong, New South Wales, Australia

11:45 AM-11:57 AM

AD-12. Opto-mechanical control over the properties of magnetostrictive thin film via liquid crystalline networks

G. Barrera[1], D. Martella[2, 4], F. Celegato[1], A. Magni[1], M. Coisson[1], C. Parmeggiani[2, 4], D. Wiersma[3, 4], P. Tiberto[1]
[1]Advance Materials and Life Sciences, INRIM, Torino, Italy, [2]Department of Chemistry "Ugo Schiff", Università di Firenze, Firenze, Italy, [3]Physics, Università di Firenza, Firenze, Italy, [4]European Laboratory for Non Linear Spectroscopy (LENS), Firenze, Italy

SESSION AE: MEASUREMENTS TECHNIQUES

Chair(s): S. Gliga, *Center for Photon Science, Paul Scherrer Institut, Villigen, Switzerland*
Tuesday, November 3, 2026
08:30 AM-12:00 PM
South Pacific 1/2

08:30 AM-09:06 AM

AE-01. A New Approach to Radio-Frequency Susceptibility of Superparamagnetic Nanoparticles Breaks the Old Rules

R. Goldfarb
National Institute of Standards and Technology, Boulder, Colorado, United States

09:06 AM-09:18 AM

AE-02. Temperature-dependent Pauli susceptibility of an altermagnet candidate RuO_2

S. Paul[1, 2, 3], G. Mattoni[2], H. Matsuki[4], A. Ikeda[3], T. Johnson[2], J. Schmalian[5], C. Sow[1], S. Yonezawa[3], Y. Maeno[2]
[1]Department of Physics, Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh, India, [2]Toyota Riken–Kyoto University Research Center (TRiKUC), Kyoto, Kyoto, Japan, [3]Department of Electronic Science and Engineering, Graduate School of Engineering, Kyoto University, Kyoto, Kyoto, Japan, [4]Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan, [5]Institute for Theory of Condensed Matter and Institute for Quantum Materials and Technologies, Karlsruhe Institute of Technology, Karlsruhe, Karlsruhe, Germany

09:18 AM-09:30 AM

AE-03. Comparison of device-level determination of Heisenberg exchange in STT-MTJ devices with film-level measurement by Brillouin light scattering

S. Liu[2, 1], C. Swindells[1], T. Santos[3], G. Mihajlović[3], H. T. Nembach[1], M. Pufall[1]
[1]National Institute of Standards and Technology, Boulder, Colorado, United States, [2]University of Colorado Boulder, Boulder, Colorado, United States, [3]Western Digital, San Jose, California, United States

09:30 AM-09:42 AM

AE-04. Single-Cell Magnetometry Reveals State-Dependent Magnetic Heterogeneity in Sickle Cell Disease

L. Nguyen T. Tran[1], S. Rodriguez Caballero[1], P. Iyer[2], K. Paz Gonzalez[1], K. Rova[1], M. Zborowski[3], P. C. Desai[4], L. Tijani[5], J. Chalmers[2], J. Gomez-Pastora[1]
[1]Chemical Engineering, Texas Tech University, Lubbock, Texas, United States, [2]William G. Lowrie Department of Chemical and Biomolecular Engineering, The Ohio State University, Columbus, Ohio, United States, [3]Department of Biomedical Engineering,

Cleveland Clinic, Cleveland, Ohio, United States, [4]Wake Forest School of Medicine, Levine Cancer Institute, Advocate Health, Charlotte, North Carolina, United States, [5]Department of Medical Oncology, Division of Hematology and Medical Oncology, Texas Tech University Health Sciences Center, Lubbock, Texas, United States

09:42 AM-09:54 AM
AE-05. Towards Nanoscale Sensing of Spin Precession with a Free-Space Electron Probe
A. Jaros, J. Antl, I. C. Bicket, M. Seifner, P. Haslinger
Physics, Atominstitut, Vienna, Austria

09:54 AM-10:06 AM
AE-06. Effective control and probe of Néel order in polycrystalline NiO films: a combined approach to study antiferromagnets
P. Wu, S. Wang, C. Yang
Materials Science and Engineering, National Yang Ming Chiao Tung University, Hsinchu, Taiwan, Taiwan

10:06 AM-10:18 AM
AE-07. Magnetic metamaterials with anisotropy gradients around a spin reorientation
F. Fettar[1], L. Abbassi[1], E. Mossang[1], N. Rougemaille[1], B. Borgnic[1], F. Gay[1], P. David[1], D. Barral[1], J. Tonnerre[1], L. Ortega[2], G. Beutier[3], D. Lacour[4], M. Hehn[4], E. C. Passamani[5], V. P. Nascimento[5]
[1]Neel Institute, CNRS, Grenoble, France, [2]LPS, CNRS, Orsay, France, [3]SIMaP, UGA, Saint Martin d'Hères, France, [4]Institut Jean Lamour, CNRS, Nancy, France, [5]Physics, Universidade Federal do Espirito santo, Vitoria, Brazil

10:18 AM-10:45 AM
Break

10:45 AM-11:21 AM
AE-08. Demagnetizing Factor Corrections for Assemblies of Single-Domain Magnetic Nanoparticles
S. Oberdick[1, 2]
[1]Physics, University of Colorado, Boulder, Boulder, Colorado, United States, [2]Applied Physics, NIST, Boulder, Boulder, Colorado, United States

11:21 AM-11:33 AM
AE-09. Machine-Learning-Based Evaluation of Material Properties from Metallurgical Microstructures
I. Hiraoka, S. Sharmin, C. Mitsumata
Univ. Tsukuba, Tsukuba, Japan

11:33 AM-11:45 AM
AE-10. Interface-resolved magnetism of metal-organic (Fe^{57}/ $C_{42}H_{28}$) Thin films; Studies under X-ray standing waves
M. Priyadarsini[1], S. Singh[1], I. Sergeev[2], D. Kumar[1]
[1]Physics, UGC DAE Consortium for Scientific Research, Indore, Madhya Pradesh, India, [2]Physics, Deutsches Elektronen-Synchrotron, Notkestraße, Hamburg, Germany

11:45 AM-11:57 AM
AE-11. The ESTIA beamline – a new paradigm for polarized neutron reflectometry
J. Cooper[1], G. Causer[1], A. Glavic[2]
[1]Large Scale Structures Division, European Spallation Source, Lund, Sweden, [2]LIN, Paul Scherrer Institute, Villigen, Switzerland

SESSION AF: TERAHERTZ, ALTERMAGNETIC AND ANTIFERROMAGNETIC SPINTRONICS

Chair(s): A. Laraoui, *Mechanical and Materials Engineering , University of Nebraska-Lincoln, Lincoln, Nebraska, United States*

Tuesday, November 3, 2026

08:30 AM-12:00 PM

South Pacific 3/4

08:30 AM-09:06 AM

AF-01. Magnon chirality in altermagnetic FeF_2

J. Sears[1], V. Garlea[2], D. Lederman[3], J. Tranquada[1], I. Zaliznyak[1]

[1]Brookhaven National Laboratory, Upton, New York, United States, [2]Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, [3]UC Santa Cruz, Santa Cruz, California, United States

09:06 AM-09:18 AM

AF-02. Electrical Readout of Sub-THz Spin Dynamics in Ferrimagnetic Thin Films

A. Regmi[1, 2], J. Hanson-Flores[2], R. Gupta[4, 3], L. Ramos[3], D. A. Arena[3], E. del Barco[1, 2]

[1]Department of Material Science and Engineering, University of Central Florida, Orlando, Florida, United States, [2]Department of Physics, University of Central Florida, Orlando, Florida, United States, [3]Department of Physics, University of South Florida, Tampa, Florida, United States, [4]Department of Physics, University of Gothenburg, Gothenburg, Sweden

09:18 AM-09:30 AM

AF-03. Conductivity Mismatch in Topological-Insulator-Based Spintronic Terahertz Emitters

O. M. van 't Erve[1], N. S. Sirica[1], J. K. Gustafson[2], N. Combs[1], E. Cobas[1], M. Noyan[1], C. Li[1]

[1]Naval Research Laboratory, Washington, District of Columbia, United States, [2]Army Research Laboratory, Adelphi, Maryland, United States

09:30 AM-09:42 AM

AF-04. Terahertz Emission Across Magnetic Compensation for GdCo and GdFe Ferrimagnetic Systems Showing Single-Pulse All-Optical Switching

J. Compton-Stewart[1], G. Nava Antonio[2], P. Chailloleau[1], Y. L. Guen[1], J. Hohlfeld[1], T. Hauet[1], M. Hehn[1], C. Ciccarelli[2], S. Mangin[1]

[1]Institut Jean Lamour, Université de Lorraine, Nancy, Meurthe et Moselle, France, [2]Unviersity of Cambridge, Cambridge, United Kingdom

09:42 AM-09:54 AM

AF-05. Terahertz Emission in Thin Film Kagome Ferromagnet Fe_3Sn_2

A. De[1], Z. Jin[1, 2], E. Lesne[3], K. Nukui[1, 2], S. Miki[1], C. Felser[3], A. Hirohata[4, 3], S. Mizukami[1, 4]

[1]Advanced Institute for Materials Research, Tohoku University, Sendai, Japan, [2]Graduate School of Engineering, Tohoku University, Sendai, Japan, [3]Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, [4]Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan

09:54 AM-10:06 AM

AF-06. Terahertz Emission Spectroscopy of Fe/Pt Multilayers

T. Nakazono[1], S. Isogami[2], Y. Sasaki[2], Y. K. Takahashi[2, 3], T. Satoh[1], K. T. Yamada[1]

[1]Department of Physics, Institute of Science Tokyo, Tokyo, Japan, [2]National Institute for Materials Science (NIMS), Tsukuba, Japan, [3]Research Institute of Electrical Communication, Sendai, Japan

10:06 AM-10:18 AM

AF-07. Ultrafast Opto-Magnetism: Unlocking the Unconventional Inverse Faraday Effect

C. Hareau[1], B. Pauriche[2], S. Boujday[2], B. Vodungbo[2], M. Mivelle[1]

[1]CNRS/ Sorbonne University, Paris, France, [2]Sorbonne University, Paris, France

10:18 AM-10:45 AM
Break

10:45 AM-10:57 AM
AF-09*. Electric Field-induced Antiferromagnetic Resonance in $MnPS_3$
J. Hanson-Flores*[1], A. Regmi[1], J. Keum[6], J. Tang[3], J. Park[6], R. Cheng[2], S. Singh[4], A. D. Kent[7], D. A. Arena[5], E. del Barco[1]
[1]Physics, University of Central Florida, Orlando, Florida, United States, [2]Electrical and Computer Engineering, University of California, Riverside, Riverside, California, United States, [3]Physics and Astronomy, University of California, Riverside, Riverside, California, United States, [4]Physics, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States, [5]Physics, University of South Florida, Tampa, Florida, United States, [6]Physics and Astronomy, Seoul National University, Seoul, Korea (the Republic of), [7]Physics, New York University, New York, New York, United States

10:57 AM-11:09 AM
AF-11. Altermagnetic non-reciprocal magnon transport in insulating d-wave orthoferrites
E. Galíndez-Ruales[1], W. Yang[3], T. Dannegger[2], M. Kundu[2], J. Köhler[1], C. Schmitt[1], F. Fuhrmann[1], A. Akashdeep[1], D. Tran[1], X. Ma[3], G. Jakob[1], S. Cao[3], U. Nowak[2], M. Kläui[1]
[1]Institute of Physics, Johannes Gutenberg University, Mainz, Germany, [2]Fachbereich Physik, Universität Konstanz, Konstanz, Germany, [3]Materials Genome Institute, Institute of Quantum Science and Technology, International Center for Quantum and Molecular Structures, Shanghai University, Shanghai, China

11:09 AM-11:21 AM
AF-12. Below-Gap Second-Harmonic Generation as a Geometric Probe of Néel Order in PT-Symmetric Antiferromagnetic Insulators
F. Xue, S. Ahmad
Physics, University of Alabama at Birmingham, Birmingham, Alabama, United States

SESSION AG: SPIN-CHARGE INTERCONVERSION
Chair(s): C. Rinaldi, *Physics, Politecnico di Milano, Milano, Italy*
Tuesday, November 3, 2026
08:30 AM-12:00 PM
Sea Pearl

08:30 AM-08:42 AM
AG-01. Spin-phase detection by spin current in a chiral helimagnet
N. Jiang[1, 2, 3], S. Suzuki[1], I. Sasaki[1], K. Yamada[1], R. Kawahara[1], S. Takada[1, 3, 4], Y. Shimamoto[5], H. Shoji[5], Y. Kousaka[5], J. Ohe[6], Y. Togawa[5], Y. Niimi[1, 2, 3]
[1]Department of Physics, The University of Osaka, Toyonaka, Osaka, Japan, [2]Center for Spintronics Research Network, The University of Osaka, Toyonaka, Osaka, Japan, [3]Institute for Open and Transdisciplinary Research Initiatives, The University of Osaka, Suita, Osaka, Japan, [4]Center for Quantum Information ad Quantum Biology, The University of Osaka, Toyonaka, Osaka, Japan, [5]Department of Physics and Electronics, Osaka Metropolitan University, Sakai, Osaka, Japan, [6]Department of Physics, Toho University, Funabashi, Japan

08:42 AM-08:54 AM
AG-02. Large Damping-Like Spin-Orbit Torque Efficiency in Synthetic Antiferromagnetic System with Pt-Pd/Ir/Pt-Pd Spacer
Y. Saito[1], T. Nguen[1], S. Ikeda[1, 2, 4], T. Endoh[1, 3, 4]
[1]Center for Innovative Integrated Electronic Systems, Tohoku University, Sendai, Miyagi, Japan, [2]Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Miyagi, Japan, [3]Department of Electrical Engineering, Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan, [4]Research Institute of Electrical Communication, Tohoku University, Sendai, Miyagi, Japan

08:54 AM-09:06 AM
AG-03. Crossover between spin orbit torque dominated and thermally assisted magnetisation switching regimes in CoFeTaB/Pt
K. Dhaliwal[1], R. Fan[1], D. M. Burn[1], O. Inyang[2], A. Hindmarch[2], P. Steadman[1]
[1]Physical Science Division, Diamond Light Source, Didcot, Oxfordshire, United Kingdom, [2]Department of Physics, Durham University, Durham, United Kingdom

09:06 AM-09:18 AM
AG-04. Observation of *canted*-spin Hall effect in low-symmetry bulk crystal α -$PdBi_2$
Y. Samukawa[1], K. Nakashima[1], N. Jiang[1, 2, 3], K. Kudo[1, 3], Y. Niimi[1, 2, 3], K. Kondou[2, 3]
[1]Department of Physics, The University of Osaka, Toyonaka, Osaka, Japan, [2]Center for Spintronics Research Network, The University of Osaka, Toyonaka, Osaka, Japan, [3]Institute for Open and Transdisciplinary Research Initiatives, The University of Osaka, Suita, Osaka, Japan

09:18 AM-09:30 AM
AG-05. Influence of Giant Spin Hall-Induced Hall Effect on Spin-Orbit Torque in Metallic Magnetic Bilayers
D. Nam[1], S. Ko[1], G. Baek[1], B. Park[2], A. M. Park[1], K. Kim[1]
[1]Physics, KAIST, Daejeon, Korea (the Republic of), [2]Materials Science and Engineering, KAIST, Daejeon, Korea (the Republic of)

09:30 AM-09:42 AM
AG-06. Role of impedance in spin-torque ferromagnetic resonance
F. Wang, W. Lin
School of Physics, Southeast University, Nanjing, Jiangsu, China

09:42 AM-10:18 AM
AG-07. Universal Hall Torques
E. A. Montoya
Physics and Astronomy, University of Utah, Salt Lake City, Utah, United States

10:18 AM-10:45 AM
Break

10:45 AM-10:57 AM
AG-09. Modulation of Damping in the Magnetic Weyl Semimetal Co_2MnGa by Intrinsic Spin-Orbit Torques
F. Weidenhiller[1, 2], L. Chen[1, 2], C. H. Back[1, 2]
[1]School of Natural Sciences, Technical University of Munich, Garching, Germany, [2]TUM Center for Quantum Engineering, Garching, Germany

10:57 AM-11:09 AM
AG-10. Channel−Less SOT−MRAM Integration with Embedded Spin−Orbit−Torque Track for Reduced Switching Current
J. Urrestarazu Larranaga, V. Kateel, A. Palomino Lopez, A. Das, N. Paul, G. Talmelli, V. Nguyen, R. Carpenter, S. Rao
imec, Leuven, Belgium

11:09 AM-11:21 AM
AG-11. When magnons drag electrons: the phenomena of interfacial magnon drag
A. De[1, 2], D. Prabhakaran[3], S. Nair[1]
[1]Physics, IISER Pune, Pune, Maharashtra, India, [2]Weizmann Institute of Science, Rehovot, Israel, [3]University of Oxford, Oxford, United Kingdom

11:21 AM-11:33 AM

AG-12. Large Self-Induced Inverse Spin Hall Effect and Damping-Like Torque in Single-layer Kagome Magnet Fe_3Sn

N. Kandwal[1], H. Bangar[2], A. Saxena[1], V. Yadav[1], R. S. Yadav[1], A. Sahoo[1], S. P. Dash[2], P. K. Muduli[1]
[1]Physics, Indian Institute of Technology Delhi, South Delhi, Delhi, India, [2]Microtechnology and Nanoscience, Chalmers University of Technology, Gothenburg, Sweden

11:33 AM-11:45 AM

AG-13. Magneto-Optic Studies of Spin Orbit Torques in Synthetic Ferrimagnets

A. K. Aykin[1], A. K[2], S. Petit-Watelot[2], M. S. Yactayo[2], L. Badie[2], S. Mangin[2], M. Hehn[2], C. Rojas-Sanchez[2], A. D. Kent[1]
[1]Center for Quantum Phenomena, Department of Physics, New York University, New York, New York, United States, [2]Institut Jean Lamour, Université de Lorraine, CNRS, Nancy, France

SESSION AP: RARE-EARTH PERMANENT MAGNETIC MATERIALS (POSTER SESSION)

Chair(s): Y. Tatetsu, *University Center for Liberal Arts Education, Meio University, Nago, Okinawa, Japan*
Tuesday, November 3, 2026
09:30 AM-12:30 PM
Coral 4

AP-01. Industrial Perspectives on Nd−Fe−B Strip Casting with Rare-Earth Alloying

G. Kumari
Eutectix, LLC, Tolleson, Arizona, United States

AP-02. Mechanically Robust Nd−Fe−B Sintered Magnets with High Magnetic Performance

B. Cui, X. Liu, W. Tang, I. C. Nlebedim, J. Cui
Division of Critical Materials, Ames National Laboratory, Ames, Iowa, United States

AP-03. Selective Boundary Fracture Milling (SBFM) for High-Performance Nd-Fe-B Magnets

H. Parmar, X. Liu, B. Cui, I. C. Nlebedim
Division of Critical Materials, Ames National Laboratory, Ames, Iowa, United States

AP-04. A guide to design the composition of Nd-Fe-B sintered magnets for achieving high-coercivity *via* Pr-based grain boundary diffusion process

S. Lee[1], S. Kim[1], H. Cha[1], T. Kim[1], K. Bae[2], D. Kim[2], J. Lee[1]
[1]Korea Institute of Materials Science, Changwon, Korea (the Republic of), [2]Star Group Ind. CO., Ltd., Daegu, Korea (the Republic of)

AP-05. Micromagnetic Simulation of Nd-Ce-Fe-B core-shell magnets using Mumax3

J. Zuo, J. Qi, C. Li, F. Pan, M. Zhang
School of Science, Inner Mongolia University of Science and Technology, Baotou, China

AP-06. First Order Reversal Curve Study of 3D Printed NdFeB

C. Radu[1], B. Dodrill[1], D. Daughton[1], S. Krishnan[2], J. Shield[2]
[1]Lake Shore Cryotronics Inc, Westerville, Ohio, United States, [2]University of Nebraska − Lincoln, Lincoln, Nebraska, United States

AP-07. Synthesis and Magnetic Properties of Exchange-coupled $SmCo_5$/Fe-Co Composite using Ultrasound-assisted Electroless Plating

K. Lee[1, 2], G. Lee[3], H. Lee[1], J. Ahn[1], J. Kim[1]
[1]Materials Science and Chemical Engineering, Hanyang University, Ansan, Korea (the Republic of), [2]Convergence Institute of ERICA, Hanyang University, Ansan, Korea (the Republic of), [3]M4ALL Inc., Ansan, Korea (the Republic of)

AP-08. High-performance Sm-Fe-N magnets produced by adding Cu powder
T. Saito
Chiba Institute of Technology, Narashino, Japan

AP-09. Low-Temperature Magnetic Transitions in Anisotropic Ce-Based Intermetallic Single Crystals
M. Goodman, A. S. Poulo, T. Lamichhane
School of Engineering, University of Central Oklahoma, Edmond, Oklahoma, United States

AP-10. Analysis of angular dependences of the coercivity of permanent magnets on the basis of magnetic domain wall motion model
T. Kawai[1], H. Yamamoto[2], M. Ohtake[1]
[1]Yokohama National University, Yokohama, Kanagawa, Japan, [2]Neojiconsul, Kyoto, Japan

AP-11. Magnetic alignment α_m by the magnetic measurement and crystallographic alignment α_c by EBSD analysis of sintered NdFeB, Sr ferrite and anisotropic injection molded (IM) bonded SmFeN magnets
H. Yamamoto[1], H. Fukunaga[2]
[1]President, Neoji-consul, Kyoto, Kyoto, Japan, [2]Electric Dept., Nagasaki University, Nagasaki, Nagasaki, Japan

AP-12LB. Controlling and Understanding Grain Boundary Diffusion in Sintered Commercial Grade NdFeB Magnets
H. Baldino[1], C. Chinnasamy[2], J. A. Haynes[3], P. Kulik[4]
[1]Material Science and Engineering, University of Central Florida, Orlando, Florida, United States, [2]Manufacturing Science Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, [3]Materials Science and Technology Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, [4]Electrical and Computer Engineering, Unversity of Central Florida, Orlando, Florida, United States

SESSION AQ: EMERGING MAGNETIC SENSORS AND FUNCTIONAL ELECTROMAGNETIC SYSTEMS (POSTER SESSION)

Chair(s): C. Zhang, *Hebei University of Technology, Tianjin, China*
Tuesday, November 3, 2026
09:30 AM-12:30 PM
Coral 4

AQ-01. Phase-Sensitive Detection of Magnetic Nanoparticles Using an Optically Pumped Magnetometer
S. Sato[1], S. Taue[1], T. Sasayama[2]
[1]Kochi University of Technology, Kami, Japan, [2]Kyushu University, Fukuoka, Japan

AQ-02. All solution patterning for fabrication of spin valve giant magnetoresistive sensing device
Y. Kurokawa, M. Taguchi, S. Miura, H. Yuasa
Graduate School and Faculty of Information Science and Electrical Engineering, Kyushu University, Fukuoka, Japan

AQ-03. Improvement of Sensitivity for Large Area Low Aspect Ratio Giant Magnetoresistance (GMR) Based Biosensors Using Flux Confiners
R. A. Mendonsa[1], S. Liang[2], J. Wang[1, 2]
[1]Electrical and Computer Engineering, University of Minnesota, Minneapolis, Minnesota, United States, [2]Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, Minnesota, United States

AQ-04. Vortex-type TMR sensor arrays for compact NMR system
A. Sakamoto[1], S. Takano[1], T. Nakano[1], M. Oogane[1, 2]
[1]Graduate School of Engineering, Department of Applied Physics, Tohoku University, Sendai, Miyagi, Japan, [2]Center for Spintronics Integrated Systems (CSIS), Tohoku University, Sendai, Miyagi, Japan

AQ-05LB. Magnetoresistive Sensor With 90 Degree Optically Reprogrammable Sensing Axis
F. van Riel, B. Koopmans, D. Leitao
Applied Physics, Eindhoven University of Technology, Eindhoven, Noord-Brabant, Netherlands

AQ-06. Development of an MTJ-Based Calibration Mechanism for Analog Integrated Circuits
T. Mizoguchi[1], M. Islam[2], M. Goto[3], Y. Ando[1]
[1]Department of Electronics and Physical Engineering, Osaka Metropolitan University, Sakai, Osaka, Japan, [2]Department of Information and Communications Engineering, Institute of Science Tokyo, Meguro, Tokyo, Japan, [3]Department of Physical Engineering, Tokyo University of Science, Shinjyuku, Tokyo, Japan

AQ-07. Design of Robust and Easily Installable Coreless Current Sensor with Parallel Magnetic Sensor Arrays
S. Mizuta, J. Inoue, Y. Okada
Mitsubishi Electric Corporation, Amgasaki, Japan

AQ-09. Low-Loss Wideband Magnetoacoustic RF Isolators Enabled by Highly Non-Collinear Dipolar-Coupled FeGaB/SiO_2/FeGaB Heterostructures
B. Luo[1], A. Winkler[2], H. Schmidt[2], V. Sharma[3], S. Wohlrab[2], M. Wu[3, 1], N. X. Sun[1]
[1]Department of Electrical and Computer Engineering, Northeastern University, Boston, Massachusetts, United States, [2]SAW Lab Saxony Leibniz IFW, Leibniz Institute for Solid State and Materials Research, Dresden, Germany, [3]Department of Physics, Northeastern University, Boston, Massachusetts, United States

AQ-10. A New TDR-Based High-Speed Non-Destructive Testing Method for Magnetic Sheets
S. Yabukami[1, 2], Y. Okuyama[2], T. Endo[2], Y. Imai[1], K. Okita[2], M. Yamaguchi[1]
[1]Tohoku University, Sendai, Japan, [2]Tohoku-TMIT, Sendai, Japan

AQ-11. Magneto-mechano-electric energy harvesting performance depending on magnet mass and position on the piezoelectric plate
S. Yoon[1, 2]
[1]Korea Institute of Industrial Technology, Gwagnju, Korea (the Republic of), [2]University of Science and Technology, Daejeon, Korea (the Republic of)

AQ-12. Noncontact Magnetic Sensing of Rear-Side Induction-Hardened Depth Using Electromagnetic Force-Induced Vibration
Y. Hosono[1], A. Kano[1], Y. Gotoh[2]
[1]Graduate School of Science and Engineering, Oita University, Oita, Japan, [2]Faculty of Science and Engineering, Oita University, Oita, Japan

AQ-13. Wave-Driven Electromagnetic Energy Harvesters: Developing and Testing a Triple-Harvester System with Integrated Water-Based Evaluation
E. E. Ivanova, J. Park, N. M. Wereley, A. Flatau
Aerospace Engineering, University of Maryland, College Park, Maryland, United States

AQ-14. Investigation of a method for measuring steel plate thickness by applying steady-state AC vibration using Electromagnetic-Force-Induced Vibration
A. Kano[2], K. Sakamoto[1], Y. Hosono[1], Y. Gotoh[2]
[1]Oita University, Oita, Japan, [2]Faculty of Science and Engineering, Oita University, Oita, Japan

AQ-15. Measurement of Hot Spring Scale Thickness Inside Steel Pipes in Geothermal Power Plants Using Electromagnetically Induced Vibrational Intensity

Y. Nagahara[1], K. Yamada[1], Y. Gotoh[2], T. Sasayama[3], T. Taguchi[4]
[1]Graduate School of Science and Technology, Oita University, Oita, Japan, [2]Oita University, Oita, Japan, [3]Kyushu University, Fukuoka, Japan, [4]Fukuoka Industrial Technology Center, Fukuoka, Japan

AQ-16. Research on Multilayer Transmission Lines using High-Frequency Magnetic Materials with Negative Permeability

H. Nakayama, S. Inomata, Y. Kobayashi, Y. Kobayashi, T. Miyata, H. Tanaka, K. Amiya
Mechanics and Robotics Course. Department of Engineering, National Institute of Technology (KOSEN), Nagano College, Nagano, Japan

SESSION AR: ULTRAFAST MAGNETISM, MAGNONICS AND SPIN DYNAMICS I (POSTER SESSION)

Chair(s): Y. Sasaki, *International Center for Young Scientists, National Institute for Materials Science (NIMS), Tsukuba, Japan*
Tuesday, November 3, 2026
09:30 AM-12:30 PM
Coral 4

AR-01. Spin-current-induced modulation of magnon-phonon cooperativity

A. Nagao[1], K. Yamanoi[1], Y. Nozaki[1, 2]
[1]Department of Physics, Keio University, Yokohama, Japan, [2]Center for Spintronics Research Network, Keio University, Yokohama, Japan

AR-02. Quantum to classical crossover and magnetization curves of few-atom nanomagnets

H. Lichtl[1, 2], L. Veldman[1, 2], N. Betz[1, 2], J. Schust[1], L. Farinacci[3], S. Baumann[1], S. Loth[1, 2]
[1]Institute for Functional Matter and Quantum Technologies, University of Stuttgart, Stuttgart, Germany, [2]Center for Integrated Quantum Science and Technology, Stuttgart, Germany, [3]University of Würzburg, Würzburg, Germany

AR-04LB. Reduction of spin-orbit-torque switching current via current-induced anisotropy torque

Y. Park[1], G. Lee[2], K. Lee[2]
[1]Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), [2]Department of Physics, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of)

AR-05. Antimagnon-to-Magnon Conversion via a Localized Boundary Mode

J. Kwon, J. Do, C. You
DGIST, Daegu, Korea (the Republic of)

AR-06. Wiedemann–Franz law violation and topological magnons in a Kagome metal

A. Banerjee, J. Choi, L. Leao, M. Neupane, B. Belbase, A. Unnikrishnan, N. Zaidi, J. Vayrynen
Department of Physics and Astronomy, Purdue University, West Lafayette, Indiana, United States

AR-07. Anisotropy-driven detour of spin rotation in the ferrimagnetic Weyl semimetal NdAlSi

H. Kim, S. Lim, J. Seo, K. Jeong, J. Hong, N. Lee, Y. Choi
Department of physics, Yonsei University, Seoul, Korea (the Republic of)

AR-08. VCMA-driven Magnetization Switching in Thick Magnetic Bilayers at Finite Temperature for Spatial Light Modulators

M. Kawana, K. AOSHIMA, K. MACHIDA, Y. Miyamoto, N. Funabashi
Science & Technology Research Labs., NHK (Japan Broadcasting Corp.), Tokyo, Japan

AR-09. Geometry-Dependent Transition from Thermal-Assisted to SOT-Driven Non-Thermal Switching in Mn3Sn

E. Jun[1], S. Lee[1], E. Im[1], G. Baek[2], S. Yang[3], K. Kim[2], S. Kim[1]
[1]Department of Physics and Energy Harvest Storage Research Centre, University of Ulsan, Ulsan, Korea (the Republic of), [2]KAIST, Daejeon, Korea (the Republic of), [3]Quantum Magnetic Sensing Group, Quantum Technology Institute Korea Research Institute of Standards and Science, KRISS, Daejeon, Korea (the Republic of)

AR-10. Single-shot magnetization switching in [Co/Pt] spin valves via heat control

K. Ishibashi[1, 2, 3], J. Igarashi[4, 5], A. Anadón[4], M. Hehn[4, 7], Y. L. Guen[4], S. Iihama[6], J. Hohlfeld[4], J. Gorchon[4], S. Mangin[4, 7], G. Malinowski[4]
[1]Department of Materials Engineering Science, the University of Osaka, Toyonaka, Osaka, Japan, [2]Department of Applied Physics, Tohoku University, Sendai, Miyagi, Japan, [3]Advanced Institute for Materials Research (AIMR), Tohoku University, Sendai, Miyagi, Japan, [4]Université de Lorraine, Nancy, France, [5]National institute of Advanced Industrial Science and Technology, Tsukuba, Japan, [6]Department of Materials Physics, Nagoya University, Nagoya, Japan, [7]Center for Science and Innovation in Spintronics (CSIS), Core Research Cluster (CRC), Tohoku University, Sendai, Japan

AR-11. Predictive Indicator of Critical Point in Equilibrium and Nonequilibrium Magnetic Systems

T. Zhang, X. Han, C. Wan
Beijing National Laboratory for Condensed Matter Physics, Beijing, China

AR-12. A Standalone Multi-Channel Magnonic Phase Shifter Bank for Phased-Array Systems

J. Greil[1], A. Angotti[2], F. Kohl[3], A. Papp[4], M. Wagner[3], M. Cocconcelli[2], A. Del Giacco[2], F. Maspero[2], B. Heinz[3], G. Csaba[4], R. Bertacco[2], M. Becherer[1], P. Pirro[3]
[1]School of Computation, Information and Technology, Technical University of Munich, Garching bei Muenchen, Bavaria, Germany, [2]Department of Physics and Polifab, Politecnico di Milano, Milano, Italy, [3]Fachbereich Physik and Landesforschungszentrum OPTIMAS, Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau, Kaiserslautern, Germany, [4]Faculty of Information Technology and Bionics, Pázmány Péter Catholic University, Budapest, Hungary

AR-13LB. Ballistic propagation of ultrashort coherent spin-wave pulses in antiferromagnets

P. K. Kim[1], J. Groefsema[1], B. Ivanov[1], V. Radovskaia[1], M. Na[1], M. Strugatsky[2], A. V. Kimel[1], D. Afanasiev[1]
[1]Radboud University, Nijmegen, Netherlands, [2]V.I. Vernadsky Crimean Federal University, Simferopol, Ukraine

AR-14. Anomalous FMR linewidth broadening in Fe thin films coupled with [Ta/Co/Pt] multilayers exhibiting perpendicular magnetic anisotropy

S. Baek[1], M. Okawa[1], S. Komori[2], T. Taniyama[1]
[1]Nagoya University, Nagoya, Japan, [2]Osaka Metropolitan University, Osaka, Japan

AR-15. Stress-controlled spin-wave dynamics in superellipse-shaped FeGa nanostructures

E. A. Saavedra Díaz[1], H. Vigo[2], C. Saji[1], D. Laroze[3], M. Al Bahri[4], J. Escrig[1, 5]
[1]Universidad de Santiago de Chile, Santiago, Chile, [2]Universidad Privada del Norte, Trujillo, Peru, [3]Universidad de Tarapacá, Arica, Chile, [4]A'Sharqiyah University, Ibra, Oman, [5]Center for Nanoscience and Nanotechnology (CEDENNA), Santiago, Chile

AR-16. Magnetization Dynamics of Exchange Coupled CoFeB/NiO/CoFeB Trilayers

R. Mehta[1], T. Sharma[1], I. Pershad[1], P. K. Pal[2], A. Barman[2], D. A. Arena[3], S. Saha[1]
[1]Physics, Ashoka University, Rai, Haryana, India, [2]Physics, S. N. Bose National Center for Basic Sciences, Kolkata, West Bengal, India, [3]Physics, University of South Florida, Florida, Florida, United States

XA: SPECIAL SESSION: MAGNETISM IN NUCLEAR FUSION

Co-Chair(s): C. Dennis, *National Institute of Standards and Technology, Gaithersburg, Maryland, United States* and R. Goldfarb, *National Institute of Standards and Technology, Boulder, Colorado, United States*

Tuesday, November 3, 2026

12:30 PM-01:30 PM

Coral 5

12:30 PM-12:55 PM

XA-01. Influence of Ferromagnetism and Diamagnetism on the Magnetic Field Configuration of the Helical Fusion Reactor

N. Yanagi[1, 2], M. Lindero-Hernández[3], F. Trillaud[4], L. Montoya-Santiyanes[5], G. dos Santos[6], D. Garfias-Dávalos[7], Y. Narushima[1, 2], Y. Raiymbekov[2], S. Miura[1, 2], X. Li[1, 8]

[1]National Institute for Fusion Science, Gifu, Japan, [2]SOKENDAI (The Graduate University for Advanced Studies), Gifu, Japan, [3]Instituto de Ingeniería, Universidad Nacional Autónoma de México, Mexico City, Mexico, [4]Université de Lorraine, GREEN Lab, Vandoeuvre-lès-Nancy, France, [5]Unidad de Alta Tecnología, Facultad de Ingeniería, Universidad National Autónoma de México, Querétaro, Mexico, [6]Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil, [7]Karlsruhe Institute of Technology, Karlsruhe, Germany, [8]Technische Universität München, München, Germany

12:55 PM-01:20 PM

XA-02. Predictive modeling of cryogenic magnetization in austenitic stainless steels for the SPARC tokamak

P. Ermoshkina, C. Snyder, T. Clark, C. Dennett

Commonwealth Fusion Systems, Cambridge, Massachusetts, United States

SESSION BA: MAGNETISM FOR BIOMEDICINE: FROM BIOLOGICAL SYSTEMS AND FUNCTIONAL MATERIALS TO THERAPY

Chair(s): P. Tiberto, *INRIM, Torino, Italy*

Tuesday, November 3, 2026

02:00 PM-05:30 PM

Coral 3

Supported by

02:00 PM-02:36 PM

BA-01. Magnetotactic Bacteria, Living Biorobot for Biomedical Application

D. Villanueva[1], A. G. Gubieda[2], L. Gandarias[3], D. de Cos Elices[4], A. Abad[2], A. García-Prieto[5], M. Fernandez Gubieda[1]

[1]Electricidad y Electrónica, Universidad del Pais Vasco (UPV/EHU), Leioa, Spain, [2]Inmunologia, Microbiologia y Parasitologia, Universidad del País Vasco (UPV/EHU), Leioa, Spain, [3]Institute of Biosciences and Biotechnologies of Aix-Marseille (BIAM), Saint-Paul-lez-Durance, France, [4]Fisica, Universidad del País Vasco (UPV/EHU), Leioa, Spain, [5]Física Aplicada, Universidad del País Vasco (UPV/EHU), Bilbao, Spain

02:36 PM-02:48 PM

BA-02. Iron Metabolism and Magnetic Characterization of Breast Cancer Stem Cells: Could Iron Be A Universal Marker for Label-Free Sorting?

K. Paz Gonzalez[1], R. Farrell[2], L. Nguyen T. Tran[1], X. Wu[3], E. Rodriguez[1], M. Venere[4], J. Chalmers[5], K. Chen[2], J. Gomez-Pastora[1]

[1]Chemical Engineering, Texas Tech University, Lubbock, Texas, United States, [2]Biological Sciences, Texas Tech University, Lubbock, Texas, United States, [3]Boston Institute of Biotechnology, Southborough, Massachusetts, United States, [4]Radiation Oncology, The Ohio State University College of Medicine, Columbus, Ohio, United States, [5]Chemical and Biomolecular Engineering, The Ohio State University, Columbus, Ohio, United States

02:48 PM-03:24 PM
BA-03. From functional materials to biomedicine: exploiting the electronic and microstructural versatility of magnetic shape memory Heuslers
F. Albertini, M. Takhsha, R. Cabassi, F. Casoli, S. Fabbrici
IMEM-CNR, Parma, Parma, Italy

03:24 PM-03:36 PM
BA-04. MagSense: Bringing Magnetic Detection of Molecules to the Nanoscale
P. M. Braganca[2], H. J. Richter[2], C. Dai[2], L. Wang[2], Y. Fan[2], J. Gibbons[2], J. Katine[2], K. Honer[1]
[1]Roche Sequencing Solutions, Santa Clara, California, United States, [2]Research, Western Digital, San Jose, California, United States

03:36 PM-03:48 PM
BA-05. Magnetic Relaxation Phenomena and Apoptotic Cell Death by Hyperthermia Treatment in PEGylated $NiFe_2O_4$ Magnetic Nanoparticles
K. Ohara[2], K. Nakazawa[2], N. Kataoka[2], Y. Ichiyanagi[1, 2]
[1]Graduate School of Engineering Science, The University of Osaka, Toyonaka, Japan, [2]Physics, Yokohama National University, Yokohama, Japan

03:48 PM-04:15 PM
Break

04:15 PM-04:51 PM
BA-06. Magnetic nanobars from self-dispersing cellular labels up to organ nanowarming agents
B. Stadler
Electrical and Computer Engineering, University of Minnesota, Minneapolis, Minnesota, United States

04:51 PM-05:27 PM
BA-07. Towards physiologically relevant in-vitro models for magneto-mechanical stimulation of cancer cells
A. Visona[1, 2], R. Morel[1], H. Joisten[1], C. Naud[1], A. Nicolas[2], P. Obeid[3], A. Millet[3], F. Berger[4], B. Dieny[1]
[1]SPINTEC, Univ. Grenoble Aples, CEA, CNRS, Grenoble, France, [2]LTM, Univ. Grenoble Alpes, CNRS, Grenoble, France, [3]BIOMICS, Univ. Grenoble Alpes, CEA, INSERM, Grenoble, France, [4]Braintech, Univ. Grenoble Alpes, INSERM, Grenoble, France

SESSION BB: ORBITRONICS MEETS SPINTRONICS: INTERPLAY BETWEEN ORBITAL AND SPIN ANGULAR MOMENTA
Co-Chair(s): K. Lee, *Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea (the Republic of)* and T. G. Rappoport, *INL Braga, Rio de Janeiro, Brazil*
Tuesday, November 3, 2026
02:00 PM-05:30 PM
Coral 5

02:00 PM-02:36 PM
BB-01. Orbitronic Route to Electric Control of Magnetism
D. Go
Department of Physics, Korea University, Seoul, Korea (the Republic of)

02:36 PM-02:48 PM
BB-03. Time-resolved measurement of long-range orbital diffusion driven by ultrafast demagnetization
S. Kim, G. Choi
Department of Energy Science, Sungkyunkwan University, Suwon, Korea (the Republic of)

02:48 PM-03:00 PM
BB-04. Experimental Evidence for Dominant Orbital Transport
E. Santos[1], J. L. Costa[1], J. E. Abrão[1], J. B. Mendes[2], A. Azevedo[1]
[1]Physics, Federal University of Pernambuco, Recife, Pernambuco, Brazil, [2]Department of Physics, Federal University of Viçosa, Vicosa, Minas Gerais, Brazil

03:00 PM-03:36 PM
BB-05. Total angular momentum generation in semiconducting and metallic chiral crystals
J. Slawinska
Zernike Institute for Advanced Materials, University of Groningen, Groningen, Netherlands

03:36 PM-04:15 PM
Break

04:15 PM-04:27 PM
BB-06. Crystal symmetry dependent Orbital Rashba Edelstein effect in epitaxial CuO thin film
R. Xiao[1], T. Zhao[1], I. Baek[2], H. Lee[2], Z. Zheng[1], S. Shi[1], Z. Xie[3], Q. Zhang[1], L. Jia[1], P. Yang[4], X. Yu[4], D. Song[3], H. Lee[2], J. Chen[1]
[1]Department of Materials Science and Engineering Material Science and Engineering, National University of Singapore, Singapore, Singapore, [2]Department of Physics, Pohang University of Science and Technology, Pohang, Korea (the Republic of), [3]Institutes of Physical Science and Information Technology, Anhui University, Hefei, China, [4]Singapore Synchrotron Light Source, Singapore, Singapore

04:27 PM-05:03 PM
BB-07. All orbitronics concepts with orbital magnets
A. Du[1], C. Schmitt[1], S. Krishnia[1], M. Zeer[2], E. Galíndez-Ruales[1], M. Loyal[1], J. Köhler[1], L. Micus[1], T. Kikkawa[3], H. Arisawa[3], T. Denneulin[4], A. Kovács[4], D. Tran[1], F. Kronast[5], D. Go[1, 2], L. Pourovskii[6], R. E. Dunin-Borkowski[4], T. Kuschel[1], M. Leaic[1], J. Sinova[1], E. Saitoh[3], G. Jakob[1], O. Gomonay[1], Y. Mokrousov[1, 2], M. Kläui[1, 7]
[1]Institute of Physics, Johannes Gutenberg University Mainz, Mainz, Germany, [2]Peter Grünberg Institut and Institute for Advanced Simulation, Forschungszentrum Jülich and JARA, Jülich, Germany, [3]Department of Applied Physics, The University of Tokyo, Tokyo, Japan, [4]Ernst Ruska-Centre for Microscopy and Spectroscopy with Electrons, Forschungszentrum Jülich, Jülich, Germany, [5]Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany, [6]CPHT, CNRS, École Polytechnique, Institut Polytechnique de Paris, Palaiseau, France, [7]Center for Quantum Spintronics and Department of Physics, NTNU, Trondheim, Norway

05:03 PM-05:15 PM
BB-08. Giant orbital torque without orbital-to-spin conversion layer
M. Kim[1, 2], S. Choe[2], D. Kim[1]
[1]Korea Institute of Science and Technology (KIST), Seoul, Korea (the Republic of), [2]Seoul National University, Seoul, Korea (the Republic of)

SESSION BC: EMERGING MAGNETIC PHENOMENA IN LOW-DIMENSIONAL SYSTEMS
Chair(s): S. Itani, *Physics and Astronomy, University of New Hampshire, Durham, New Hampshire, United States*
Tuesday, November 3, 2026
02:00 PM-05:30 PM
Coral 1

02:00 PM-02:36 PM
BC-01. The Critical Role of Interface Quality in van der Waals Heterostructures for Exchange Bias
A. Puthirath Balan[1, 2], A. Kumar[2], S. Hameed[2], P. Reiser[3], T. Scholz[4], T. Denneulin[5], J. Vas[5], Z. Lin[6], S. Fu[7], A. Shahee[2], M. Tschudin[3], C. Pellet-Mary[3], D. Dutta[3], C. Schrader[3], J. Geuchies[2], K. Leutner[2], X. Wang[2], L. Gao[7], A. Kovács[5], H. Wang[7], G. Jakob[2], A. Bonanni[8], J. Yang[6], O. Gomonay[2], U. Nowak[9], J. Sinova[2], B. Lotsch[4], R. E. Dunin-Borkowski[5], P. Maletinsky[3], M. Kläui[2, 10]
[1]Rice University, Houston, Texas, United States, [2]Johannes Gutenberg University, Mainz, Germany, [3]University of Basel, Basel, Switzerland, [4]Max Planck Institute for Solid State Research, Stuttgart, Germany, [5]Forschungszentrum Jülich, Jülich, Germany, [6]Peking University, Beijing, China, [7]Max Planck Institute for Polymer Research, Mainz, Germany, [8]Johannes Kepler University, Linz, Austria, [9]University of Konstanz, Konstanz, Germany, [10]Norwegian University of Science and Technology NTNU, Trondheim, Norway

02:36 PM-02:48 PM
BC-02. Exploring the Magnetic Quantum Phases in $MnSb_2Te_4$ by First-Principles Calculations
M. Tardieux[1], A. Isaeva[1, 2, 3], I. Aguilera[1]
[1]Institute of Physics, University of Amsterdam, Amsterdam, Netherlands, [2]Faculty of Physics, Technical University of Dortmund, Dortmund, Germany, [3]Research Center Future Energy Materials and Systems, Dortmund, Germany

02:48 PM-03:00 PM
BC-03. Magnetic Properties in Non-Centrosymmetric Kondo Lattice Heavy Fermion CeFeGe3
T. Park, S. Yousuf, H. Lee, J. Sung, T. Lee
Physics, Sungkyunkwan University, Suwon, Gyeonggi-do, Korea (the Republic of)

03:00 PM-03:12 PM
BC-04. Quantum simulation of geometrically constrained spin reorientation in a spin−orbit-entangled iridate
S. Lim, K. Jeong, J. Seo, J. Hong, J. Byeon, H. Ryu, K. Moon, N. Lee, Y. Choi
Department of Physics, Yonsei University, Seoul, Korea (the Republic of)

03:12 PM-03:24 PM
BC-05. Theoretical Studies and Ground State Configuration of an Artificial Spin Ice on the Ammann-Beenker Tiling
E. Weightman, S. Coates, L. O'Brien
University of Liverpool, Liverpool, United Kingdom

03:24 PM-03:36 PM
BC-06. Structural design and magneto-transport properties of intergrowth compound $Eu_2CuZn_2Sb_3$
Y. Duan, X. Chen, Z. Wang
Department of Physics, Southeast University, Nanjing, Jiangsu, China

03:36 PM-03:48 PM
BC-07. The first-principles investigations of electronic structures and magnetism on K intercalated and substituted for H in *p*-terphenyl
R. Chen[1], Z. Guo-Hua[2], H. Lin[1]
[1]Institute for Advanced Studies in Physics and School of Physics, Zhejiang University, Hangzhou, Zhejiang, China, [2]Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, Guangdong, China

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM
BC-08. Exotic magnetic phases of Tsai-type approximant crystals: From 1/1 to 5/3 approximant structures
T. Sugimoto[1], T. Yamada[2]
[1]Electrical, Electronic, and Information Engineering, Kansai University, Suita, Osaka, Japan, [2]Institute of Materials Structure Science, High Energy Accelerator Research Organization (KEK), Naka-gun, Ibaraki, Japan

04:27 PM-04:39 PM
BC-09. Quantum computation of ultra-weak magnetic anisotropy in a frustrated spin-1/2 antiferromagnet
K. Jeong, J. Seo, S. Lim, J. Hong, H. Ryu, J. Byeon, K. Moon, N. Lee, Y. Choi
Department of Physics, Yonsei University, Seoul, Korea (the Republic of)

04:39 PM-04:51 PM
BC-10. Magnetic properties of quasiperiodic tilings: a case study on the hexagonal golden-mean tiling
S. Coates
University of Liverpool, Liverpool, United Kingdom

04:51 PM-05:03 PM
BC-12. Theory of 2D Ferromagnetism and Anisotropy-driven Topological Spin Textures in Fe_3Sn
T. Bayaraa, S. M. Griffin
Lawrence Berkeley National Laboratory, Berkeley, California, United States

05:03 PM-05:15 PM
BC-13. Investigating Thermal Phase Transitions in a Spin-1/2 Heisenberg Antiferromagnet on a Lieb-lattice of Orthogonal Dimers
J. Strecka, K. Karlova, A. Zoshki
Pavol Jozef Safarik University, Kosice, Slovakia

SESSION BD: HEAT ASSISTED MAGNETIC RECORDING
Co-Chair(s): V. Lomakin, *ECE, University of California, San Diego, La Jolla, CA, California, United States* and S. Hernandez, *Seagate Technology, Bloomington, Minnesota, United States*
Tuesday, November 3, 2026
02:00 PM-05:30 PM
Coral 2

02:00 PM-02:36 PM
BD-01. Analytical Approach to Predict Performance of Heat-Assisted Magnetic Recording
P. Jubert, T. Tang, R. Brockie
Western Digital Corporation, San Jose, California, United States

02:36 PM-02:48 PM
BD-02. FePt-BN granular media for the thermal spin-torque heat assisted magnetic recording
S. Ratha[1], M. Ullerithodi[1], Y. Sasaki[1], H. Sibi[1], G. K. Shukla[1], D. Angayarkanni Ramamurthy[1], S. Isogami[1], Y. Fan[2], Y. Kubota[3], J. Gadbois[2], Y. K. Takahashi[1, 4]
[1]Research Centre for Magnetism and Spintronic Materials, National Institute for Materials Science, Tsukuba, Ibaraki, Japan, [2]Advanced Technology Development, Seagate Technology, Bloomington, Minnesota, United States, [3]Recording Media Organization, Seagate Technology, Fremont, California, United States, [4]Research Institute of Electrical Communication, Tohoku University, Sendai, Tohoku, Japan

02:48 PM-03:00 PM
BD-03. Microstructural and Magnetic Property Engineering of FePt-X/Mo-X/FePt-X (X=C, *h*-BN) Granular Films for High-Density Data Storage
H. Sibi[3, 2], D. Angayarkanni Ramamurthy[1], A. Bolyachkin[1], D. Ogawa[1], Y. Sasaki[1], S. Kasai[1], Y. K. Takahashi[1, 2, 4]
[1]RCMSM, NIMS, Tsukuba, Ibaraki, Japan, [2]Materials Innovation, University of Tsukuba, Tsukuba, Ibaraki, Japan, [3]RCMSM, NIMS, Tsukuba, Ibaraki, Japan, [4]RIEC, Tohoku University, Sendai, Miyagi, Japan

03:00 PM-03:12 PM
BD-04. A Study of 3B−2T Code and Its Recording Schemes for Dual-Layer HAMR
Y. Nakamura[1], S. Greaves[2], Y. Kanai[3], Y. Okamoto[1]
[1]Ehime University, Matsuyama, Japan, [2]Tohoku University, Sendai, Japan, [3]Niigata Institute of Technology, Kashiwazaki, Japan

03:12 PM-03:24 PM
BD-05. Magnetic properties of $L1_0$ FePt at different surface terminations
A. Venugopal[1], I. Chatratin[1], X. He[2], V. Blum[2, 3], T. Klemmer[4], O. Heinonen[5]
[1]Seagate Research, Seagate Technology, Bloomington, Minnesota, United States, [2]Thomas Lord Department of Mechanical Engineering and Materials Science, Duke University, Durham, North Carolina, United States, [3]Department of Chemistry, Duke University, Durham, North Carolina, United States, [4]Recording Media Organization, Seagate Technology, Fremont, California, United States, [5]Recording Head Organization, Seagate Technology, Bloomington, Minnesota, United States

03:24 PM-03:36 PM
BD-06. Intrinsic Optical and Thermal Properties of Segregant Materials for HAMR Applications
E. Yitamben, P. Jubert, A. Bourez, G. Bertero, R. Brockie, I. Okamoto
Western Digital, San Jose, California, United States

03:36 PM-03:48 PM
BD-07. FePt/Ir/FePt Dual-Layer HAMR Media for Multi-Level Magnetic Recording
J. Chang[1, 2], B. L. Reese[1, 2], D. E. Laughlin[1, 2, 3], J. Zhu[1, 2, 3]
[1]Data Storage Systems Center, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States, [2]Materials Science and Engineering, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States, [3]Electrical and Computer Engineering, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM
BD-08. Read Head Design for Vector Recording in HAMR
J. Zhu
DSSC, Electrical and Computer Engineering, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States

04:27 PM-04:39 PM
BD-09. HAMR Areal Density Scaling Beyond 5Tb/in^2
A. Ghoreyshi, A. Venugopal, P. Czoschke, S. Hernandez
Seagate Technology, Bloomington, Minnesota, United States

04:39 PM-04:51 PM

BD-10. Multilayered Magnetic Recording Media Stabilized by Ta Doped $Pt_{1-x}Ta_x$ Interlayers

B. L. Reese[2, 1], J. Chang[2, 1], D. E. Laughlin[2, 1], J. Zhu[2, 1, 3]
[1]Materials Science and Engineering, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States, [2]Data Storage Systems Center, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States, [3]Electrical and Computer Engineering, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States

04:51 PM-05:03 PM

BD-11. Femtosecond laser induced birefringence in NiO/Pt thin films

F. Ikeda[1], S. Iihama[1], B. Kunyangyuen[2], J. Lin[2], A. Yoshida[1], Y. Suzuki[1], K. Hayashi[1], G. Malinowski[2], M. Hehn[2], S. Mangin[2], T. Moriyama[1]
[1]Department of Materials Physics, Nagoya University, Nagoya, Aichi, Japan, [2]CNRS, Institut Jean Lamour, Université de Lorraine, Nancy, Meurthe-et-Moselle, France

05:03 PM-05:15 PM

BD-12. Demonstrating magnetic memory in iron-rhodium thin film structures using a wide-field quantum diamond microscope

K. V. Ung[2, 1, 3], G. M. Stephen[4], N. Blumenschein[4], A. Edwards[4], S. LaGasse[4], S. P. Bennett[5], A. T. Hanbicki[4], R. Walsworth[2, 1, 3], A. Friedman[4], P. Petruzzi[4]
[1]Joint Quantum Institute, College Park, Maryland, United States, [2]Physics, University of Maryland, College Park, Maryland, United States, [3]Quantum Technology Center, College Park, Maryland, United States, [4]Laboratory for Physical Sciences, College Park, Maryland, United States, [5]Naval Research Laboratory, Washington, District of Columbia, United States

SESSION BE: IMAGING, SENSING AND ELECTROMAGNETIC DEVICES

Chair(s): R. Goldfarb, *National Institute of Standards and Technology, Boulder, Colorado, United States*
Tuesday, November 3, 2026
02:00 PM-05:30 PM
South Pacific 1/2

02:00 PM-02:36 PM

BE-01. Play it again – Recovering historic audio from degraded magnetic tapes using X-ray magnetic dichroism

S. Gliga
Paul Scherrer Institute, Villigen PSI, Switzerland

02:36 PM-02:48 PM

BE-02. Physics-Informed Tomographic Reconstruction of Chiral Magnetic Textures

A. J. Setescak[1], P. Mitchell[2], A. Chavan[1], C. Donnelly[2], C. Abert[1]
[1]University of Vienna, Vienna, Austria, [2]Max Planck Institute for the Chemical Physics of Solids, Dresden, Germany

02:48 PM-03:00 PM

BE-03. Light-induced control of spin state and anisotropy in out-of-plane ferromagnets.

S. Bodnar[1], I. Soldatov[1], V. Neu[1], Y. Vaynzof[1, 2]
[1]Institute for Emerging Electronic Technologies, IFW Dresden, Dresden, Germany, [2]TU Dresden, Dresden, Germany

03:00 PM-03:12 PM

BE-04. MOKE-Based Analysis of Commercial Grade NdFeB Magnets Using Automated Domain Characterization

S. E. Rego[1], H. Baldino[2], J. Williams[1], P. Kulik[1, 2]
[1]Electrical & Computer Engineering, University of Central Florida, Orlando, Florida, United States, [2]Material Science & Engineering, University of Central Florida, Orlando, Florida, United States

03:12 PM-03:24 PM

BE-05. Chirality-Selective Imaging of Spin Wave via Nitrogen-Vacancy Circular Dichroism

E. Im[1], H. Kim[1], E. Jun[1], B. Hayden[2], T. Ono[4], U. Vool[2], S. Kim[1, 3], Y. Choi[1, 2]
[1]Physics, University of Ulsan, Ulsan, Korea (the Republic of), [2]Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, [3]Center for Quantum Dynamics of Angular Momentum, Pohang University of Science and Technology, Pohang, Korea (the Republic of), [4]Institute for Chemical Research, Kyoto, Japan

03:24 PM-03:36 PM

BE-06. Nanoscale Imaging of Antiferromagnetic Domains in Epitaxial Mn_3GaN Thin Films

D. R. Lawati[1], Y. Yao[2], P. Pal[2], M. A. Elekhtiar[3], R. Timalsina[1], J. Kumar[1], M. Rzchowski[4], E. Y. Tsymbal[3, 5], C. Eom[2], A. Laraoui[1, 3, 5]
[1]Mechanical & Materials Engineering, University of Nebraska-Lincoln, Lincoln, Nebraska, United States, [2]Materials Science and Engineering, University of Wisconsin-Madison, Madison, Wisconsin, United States, [3]Department of Physics and Astronomy, University of Nebraska-Lincoln, Lincoln, Nebraska, United States, [4]Department of Physics, University of Wisconsin-Madison, Madison, Wisconsin, United States, [5]Nebraska Center for Materials and Nanoscience, University of Nebraska-Lincoln, Lincoln, Nebraska, United States

03:36 PM-03:48 PM

BE-07. Imaging 3D Magnetic Domains with Electron Interferometry and Polarimetry

B. McMorran
Department of Physics, University of Oregon, Eugene, Oregon, United States

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM

BE-08. Magnetic decoupling of a PMSM machine for flywheel energy storage systems

A. Bellini[1], C. Bianchini[2], G. Petrelli[3]
[1]Alma Mater Studiorum, University of Bologna, Bologna, Italy, [2]University of Modena and Reggio Emilia, Modena, Italy, [3]University of Nottingham, Nottingham, United Kingdom

04:27 PM-04:39 PM

BE-09. Performance Improvement of a Rare-Earth-Lean Electro-Thermal Multi-Energy Motor with a Heterogeneous Halbach Array Based on Ferrite-Assisted Excitation

J. Yuan[1, 2], M. Zhang[1, 2], F. Xiao[1, 2], H. Wang[1, 2], Z. Cai[4], D. Dong[3]
[1]School of Electrical Engineering and Automation, Wuhan University, Wuhan, Hubei, China, [2]State Key Laboratory of Power Grid Environmental Protection, School of Electrical Engineering and Automation, Wuhan University, Wuhan, Hubei, China, [3]Xiangtan Electric Manufacturing Co., Ltd, Xiangtan, Hunan, China, [4]School of Electrical Engineering and Automation, College of Chemistry and Molecular Sciences, Wuhan University, Wuhan, Hubei, China

04:39 PM-04:51 PM

BE-10. FEA Modeling of Rare Earth Permanent Magnets with Grain Boundary Diffusion Used in Large Size Electrical Machines

J. Shen, J. Lu
Zhejiang University, Hangzhou, China

04:51 PM-05:03 PM

BE-11. Vibration Characteristic Analysis for Large Transformer Core

R. Takeda[1], M. Namikawa[2], H. Inoue[1], T. Omura[1], T. Overboom[3], M. Schmid[4], S. Mokkapaty[5], M. Milone[5]
[1]Steel Research Laboratory, JFE Steel Corporation, Kurashiki, Japan, [2]Steel Research Laboratory, JFE Steel Corporation, Kawasaki, Japan, [3]Royal Smit Transformers, SGB-SMIT Group, Nijmegen, Netherlands, [4]SGB Transformers, SGB-SMIT Group, Regensburg, Germany, [5]SGB-SMIT Group, Regensburg, Germany

05:03 PM-05:15 PM
BE-12. CNN-Based Recognition of Underwater Magnetic Tags
S. Ben Mbarek, S. Rana Muhammad, I. Nasri, S. Amara, H. Bagci, G. Setti
CEMSE, KAUST, Thuwal, Saudi Arabia

05:15 PM-05:27 PM
BE-13. Transient Magnetic Edge Intelligence for Adaptive Sensing
A. Upadhyay
Electrical and Computer Engineering, University of Texas at Austin, Austin, Texas, United States

SESSION BF: ALTERMAGNETIC AND ANTIFERROMAGNETIC SPINTRONICS I
Chair(s): J. Kang, *Electrical and Computer Engineering, Northwestern University, Evanston, Illinois, United States*
Tuesday, November 3, 2026
02:00 PM-05:30 PM
South Pacific 3/4

02:00 PM-02:36 PM
BF-01. Highly-efficient field-free full switching of chiral antiferromagnets
C. Song, Z. Zhou
Tsinghua University, Beijing, China

02:36 PM-02:48 PM
BF-02. Multistate probabilistic computing in the chiral kagome antiferromagnet Mn_3Sn
P. Madhusudan Rao[1], J. Jeon[1], K. Callahan-Coray[2], K. Camsari[2], S. Parkin[1]
[1]Nanosystems for Ions, Spins and Electrons, Max-Planck Institute of Microstructure Physics, Halle(Saale), Germany, [2]Department of Electrical and Computer Engineering, University of California, Santa Barbara, Santa Barbara, California, United States

02:48 PM-03:00 PM
BF-03. Write error rate in Mn_3Sn nanodots driven by chiral spin rotation using sub-ns pulses
Y. Fushimi[1, 2], Y. Sato[1, 2], H. Iwai[1, 2], Y. Yamane[1, 3], S. Kanai[1, 2, 4], S. Fukami[1, 2, 4]
[1]Laboratory for Nanoelectronics and Spintronics, Research Institute of Electrical Communication, Tohoku University, Sendai, Japan, [2]Department of Electronic Engineering, Tohoku University, Sendai, Japan, [3]Frontier Research Institute for Interdisciplinary Sciences, Tohoku University, Sendai, Japan, [4]Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan

03:00 PM-03:12 PM
BF-04. Fast Spin-Orbit and Octupole-Driven Spin-Transfer Torque Switching of Non-Collinear Antiferromagnetic Tunnel Junctions
N. Zogbi[1, 2], V. C. Rogers[1, 2], S. B. Hamid[1, 2], M. Hamdi[3], J. Kang[3], S. Arpaci[4], E. Matt[4], S. Cheung[3], P. Khalili Amiri[3, 4], J. Incorvia[1, 2]
[1]Chandra Dept. of Electrical and Computer Engineering, University of Texas at Austin, Austin, Texas, United States, [2]Microelectronics Research Center, University of Texas at Austin, Austin, Texas, United States, [3]Department of Electrical and Computer Engineering, Northwestern University, Evanston, Illinois, United States, [4]Applied Physics Program, Northwestern University, Evanston, Illinois, United States

03:12 PM-03:24 PM
BF-05. Thickness-Dependent Spin–Orbit Torque and Spin Diffusion in Epitaxial Mn_3Sn Thin Films
P. Zhang[1], J. Lu[1], V. Lomakin[2], J. Hong[3]
[1]HBUT, Wuhan, China, [2]UCSD, La Jolla, California, United States, [3]UC Berkeley, Berkeley, California, United States

03:24 PM-03:36 PM
BF-06. Low frequency noise in W/Mn_3Sn spin-orbit torque devices
W. Liang[1], S. Sakamoto[1], J. Chen[1], X. Piao[1], H. Kosaki[1], T. Higo[2], M. Asakura[2], S. Nakatsuji[1, 2, 3], S. Miwa[1]
[1]The Institute for Solid State Physics, The University of Tokyo, Kashiwa, Japan, [2]Department of Physics, The University of Tokyo, Tokyo, Japan, [3]Institute for Quantum Matter and Department of Physics and Astronomy, Johns Hopkins University, Baltimore, Maryland, United States

03:36 PM-03:48 PM
BF-07*. Absence of Transport Altermagnetic Spin-Splitting Effect in RuO_2
Y. Wang[1, 2], Z. Shen[1], C. Lin[1], W. Hsu[1], Y. Chen[2], Y. Chin[3], A. Singh[4], W. Lee[4], C. Chen[5], S. Huang[1, 6], D. Qu[2, 6]
[1]Department of Physics, National Taiwan University, Taipei, Taiwan, [2]Center for Condensed Matter Sciences, National Taiwan University, Taipei, Taiwan, [3]Department of Physics, National Chung Cheng University, Chia-Yi, Taiwan, [4]Institute of Physics, Academia Sinica, Taipei, Taiwan, [5]National Synchrotron Radiation Research Center, Taipei, Taiwan, [6]Center of Atomic Initiatives for New Materials, National Taiwan University, Taipei, Taiwan

03:48 PM-04:15 PM
Break

04:15 PM-04:51 PM
BF-08. Magnetotransport in Altermagnets: Spin-Splitter Torque and Anisotropic Phenomena
S. Karube
Kyoto University, Uji, Japan

04:51 PM-05:03 PM
BF-09. Non-Relativistic spintronics phenomena in Antiferromagnets
J. Zelezny
Institute of Physics, Czech Academy of Sciences, Prague, Czechia

05:03 PM-05:15 PM
BF-10. Electrical and Thermal Transport in Altermagnetic CrSb
D. Kriegner
Institute of Physics of the Czech Academy of Sciences, Prague, Czechia

05:15 PM-05:27 PM
BF-11. Current-induced magnetization switching in altermagnet/van der Waals magnet heterostructures
H. Bangar[1], P. Tsipas[2], L. Pandey[1], A. Dimoulas[2], S. P. Dash[1]
[1]Chalmers University of Technology, Göteborg, Sweden, [2]National Center for Scientific Research, Athens, Greece

SESSION BG: MAGNETO-OPTICAL COUPLING IN FUNCTIONAL MAGNETIC MATERIALS AND DEVICES AND HARD MAGNETIC MATERIALS IV: NANOPARTICLES AND RARE-EARTH-FREE MAGNET DESIGN

Co-Chair(s): W. Geerts, *Physics, Texas State University, San Marcos, Texas, United States* and K. Park, *National Institute of Advanced Industrial Science and Technology, Nagoya, Aichi, Japan*

Tuesday, November 3, 2026

02:00 PM-05:30 PM

Sea Pearl

02:00 PM-02:36 PM

BG-01. High-Speed Active Lens Based on a Magnetic Domain Hologram in a Magnetic Garnet Film

T. Goto[1], H. Miyashita[1], T. Watanabe[2], E. Negishi[2], K. Ishiyama[1]

[1]RIEC, Tohoku University, Sendai, Japan, [2]Shin-Etsu Chemical Co., Ltd., Annaka, Japan

02:36 PM-02:48 PM

BG-02. Strain-induced changes in perpendicular magnetic anisotropy probed by operando X-ray magnetic spectroscopies in GdFeCo films on flexible polyimide sheet

J. Okabayashi[1], Y. Fujii[2], H. Yoshikawa[2], A. Tsukamoto[2]

[1]UTokyo, Tokyo, Japan, [2]Nihon Univ., Funabashi, Japan

02:48 PM-03:00 PM

BG-04. Cubic magneto-optic Kerr effect in (111)- and (001)-oriented magnetic thin films

M. Gaerner[1], R. Silber[2], J. Hamrle[3], T. Kuschel[4]

[1]Bielefeld University, Bielefeld, Germany, [2]VSB - Technical University of Ostrava, Ostrava, Czechia, [3]Charles University Prague, Prague, Czechia, [4]Johannes Gutenberg University Mainz, Mainz, Germany

03:00 PM-03:12 PM

BG-05. Environmental Degradation and Nanoparticle-Augmented Protective Coatings for NdFeB and SmCo Permanent Magnets: A Comparative Review and Perspectives

S. Hughes, T. Lamichhane

Engineering, University of Central Oklahoma, Edmond, Oklahoma, United States

03:12 PM-03:24 PM

BG-06. High-Performance Ultra-Pure $Nd_2Fe_{14}B$ Powders through A One-step Calciothermic Reduction-Diffusion

R. Kuchi, A. Palasyuk, I. Z. Hlova, Y. Mudryk

Ames National Laboratory, Ames, Iowa, United States

03:24 PM-03:36 PM

BG-07. Role of Size, Shape, and Higher-Order Anisotropy in Coercivity of $Nd_2Fe_{14}B$ Nanoparticles

J. Lisik[1], A. Terko[1], T. Schrefl[2], E. Girt[1]

[1]Department of Physics, Simon Fraser University, Burnaby, British Columbia, Canada, [2]Center for Modelling and Simulation, University for Continuing Education Krems, Wiener Neustadt, Austria

03:36 PM-04:15 PM

Break

04:15 PM-04:27 PM

BG-08. Enhanced coercivity in Rare-earth-free Fe-Co-B nanoparticles via atmosphere-controlled wet-chemical synthesis

T. Parida, A. Karati, X. Liu, I. C. Nlebedim

Division of Critical Materials, Ames National Laboratory, Ames, Iowa, United States

04:27 PM-04:39 PM
BG-09. High Coercivity Ce-Nd-Fe-B Nanoparticle
H. Parmar, C. I. Nlebedim, X. Liu
Critical Materials Innovation Hub, Division of Critical Materials, Ames National Laboratory, Ames, Iowa, United States

04:39 PM-04:51 PM
BG-10. Effect of Cobalt Substitution on Magnetic Properties of Fe_2P Nanoparticles
T. Karki, H. Abbas, P. Joshi, J. Mohapatra, P. Liu
Physics, The University of Texas at Arlington, Arlington, Texas, United States

SESSION BP: MAGNETORESISTANCE AND SPIN INJECTION (POSTER SESSION)
Chair(s): E. Iacocca, *Physics, University of Colorado Colorado Springs, Colorado Springs, Colorado, United States*
Tuesday, November 3, 2026
03:00 PM-06:00 PM
Coral 4

BP-01. Spin-Orbit Torque Generation in In-Plane Magnetized Co Films on c-Sapphire Substrate
S. Mochizuki[1], S. Hirata[2], T. Ono[2, 3], T. Satoh[1], K. T. Yamada[1]
[1]Department of Physics, Institute of Science Tokyo, Meguro-ku, Tokyo, Japan, [2]Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan, [3]Center for Spintronics Research Network, Kyoto University, Uji, Kyoto, Japan

BP-02. Gaussian Superparamagnetic Tunnel Junction
T. Kinoshita, N. Caçoilo, M. Ohtani, H. Kaneko, S. Kanai, S. Fukami
Tohoku University, Sendai, Japan

BP-03. Voltage Generation by Ferromagnetic Resonance in Magnetic Bilayers with Perpendicular Magnetic Anisotropy
A. K. Dhiman, M. Matczak, P. Kuswik, P. Graczyk
Institute of Molecular Physics, Polish Academy of Sciences, Poznan, Wielkopolskie, Poland

BP-05LB. Quantitative Understanding of Field-like Spin-orbit Torque Using Spin Rotation
K. J. Peterson, E. D. DeVisscher, E. R. Morris, N. Boyd, R. W. Greening, B. L. Zink, X. Fan
Physics and Astronomy, University of Denver, Denver, Colorado, United States

BP-06. Fabrication of giant magnetoresistance ink with high sensitivity at a low field
S. Miura, M. Taguchi, Y. Kurokawa, H. Yuasa
Kyushu Univ, Fukuoka, Japan

BP-07. Transport Signature for Orbital Magnetic Moment Texture in Chiral Semiconductor Tellurium
S. Okumura, R. Tanaka, D. Hirobe
Shizuoka University, Shizuoka, Japan

BP-08. Ferromagnet-DNA-Ferromagnet Junction Built-in Nanowire Spintronic Device Fabrication and Characterization

R. Kizil[3], A. Moreira[1], A. Heltman[2]
[1]Departamento de Física e Astronomia, Faculdade de Ciências da Universidade do Porto, Porto, Portugal, [2]Department of Physics, Penn State University, University Park, Pennsylvania, United States, [3]Department of Chemical Engineering, Istanbul Technical University, Istanbul, Turkey

BP-09. Co Thickness Dependent Unidirectional Magnetoresistance in Pt/Co/Ru/Co Synthetic Antiferromagnet

H. Oh, J. Do, C. You
DGIST, Daegu, Korea (the Republic of)

BP-10. Strain-enhanced magnetoresistance under invariant magnetic phase boundaries in a room temperature van der Waals antiferromagnet

J. Seo, H. Shin, S. Lim, K. Jeong, J. Hong, H. Ryu, J. Byeon, K. Moon, N. Lee, Y. Choi
Physics, Yonsei university, Seoul, Korea (the Republic of)

BP-11. Observation of the Spin Seebeck Effect (SSE) in FM/NM Heterostructures

M. Maryam, P. Wongjom
Division of Physics, Thammasat University, Rangsit, Pathum Thani, Thailand

BP-12. Conductance Study of an Octametallic Molecular Complex Via Conductive Probe Atomic Force Microscopy and Magnetic Tunnel Junction Testbed

P. Tyagi, M. Savadkoohi
University of the District of Columbia, Washington, District of Columbia, United States

BP-13. Current-induced drastic change in resistivity–temperature characteristics: Mechanism of spin-related transport in a polycrystalline $NiCo_2O_4$ film

S. Sugiyama[1], M. Tanaka[1, 2, 3], R. Nakane[1, 2, 4]
[1]Deptartment of Electrical Engineering and Information Systems, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, [2]Center for Spintronics Research Network (CSRN), The University of Tokyo, Bunkyo-ku, Tokyo, Japan, [3]Institute for Nano Quantum Information Electronics, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, [4]Systems Design Lab (d.lab), The University of Tokyo, Bunkyo-ku, Tokyo, Japan

BP-14. Exploration of Spin-Dependent Tunneling for Electrical Detection of Spin States in Diamond NV Centers

K. Higashikawa[1], S. Nakamura[3, 4], M. Kawashima[5], H. Morishita[2, 4], S. Onoda[6], Y. Ando[1]
[1]Department of Physics and Electronics, Osaka Metropolitan University, Sakai, Osaka, Japan, [2]Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Miyagi, Japan, [3]Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Miyagi, Japan, [4]WPI Advanced Institute for Materials Research, Tohoku University, Sendai, Miyagi, Japan, [5]Department of Applied Physics, Tohoku University, Sendai, Miyagi, Japan, [6]National Institutes for Quantum Science and Technology, Takasaki, Gunma, Japan

BP-15. Spin Orbit Torque in Synthetic Antiferromagnetic Structure Using Rh and IrMn Capping Layer

D. Tanaka, Y. Chen, Y. Kurokawa, H. Yuasa
Kyushu University, Fukuoka, Japan

BP-16LB. Magnon-phonon coupling using multiple-overtone surface acoustic waves

K. Yamanoi, Y. Nozaki
Keio University, Yokohama, Japan

SESSION BQ: ADVANCED PERMANENT MAGNET AND INDUCTION MACHINE TECHNOLOGIES (POSTER SESSION)

Chair(s): J. Xiao, *Hinetics Inc., Champaign, Illinois, United States*

Tuesday, November 3, 2026

03:00 PM-06:00 PM

Coral 4

BQ-01. Torque and Rotor Current Prediction of Induction Motors Using Per Unit Slip Frequency and Current Based on Equivalent Circuit Correction

T. Kim[1], J. Kim[1], E. Kim[1], M. Lim[1], H. Ban[2], J. Choi[2], K. Shin[3]

[1]Department of Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), [2]Department of Electrical Engineering, Chungnam National University, Chungnam, Korea (the Republic of), [3]Department of AI Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

BQ-02. Multiphysics Analysis and Experimental Verification of Electromagnetic Vibration and Noise in an Interior Permanent Magnet Synchronous Motor Considering SVPWM Inverter Excitation

G. Lee[1], G. Shin[1], M. Kim[1], S. Kim[2], J. Choi[2], K. Shin[1]

[1]Changwon National University, Changwon, Korea (the Republic of), [2]Chungnam National University, Daejeon, Korea (the Republic of)

BQ-03. Comparative Study on Design and Analysis of Interior Permanent Magnet Synchronous Motors with Different Rotor Structures based on Magnetic Equivalent Circuit and Finite Element Method

H. Lee[1], M. Kim[1], M. Seo[1], W. Lee[1], K. Yu[2], J. Choi[2], K. Shin[3]

[1]Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), [2]Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [3]Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

BQ-04. Magnetic coupling control between permanent magnet flux and induced rotor currents in line-start permanent magnet machines

J. Lee[1], M. Park[1], Y. Noh[1], K. Lee[1], J. Lee[2]

[1]Korea Electronics Technology Institute, Bucheon, Korea (the Republic of), [2]Hanyang University, Seoul, Korea (the Republic of)

BQ-05. Two-Step Split Magnetization Strategy for Post-Assembly Magnetization of Axial Flux Permanent Magnet Rotor

J. Lee, J. Moon, Y. Lim, C. Lee, W. Kim

Gachon University, Seongnam, Korea (the Republic of)

BQ-06. Multi-Objective and Multi-Fidelity Automatic Design Framework for Squirrel Cage Induction Motors Using Tree Search Based Reinforcement Learning

M. Lim[2], T. Kim[2], E. Kim[2], J. Kim[2], H. Ban[1], J. Choi[1], K. Shin[3]

[1]Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [2]Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), [3]AI Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

BQ-07. AFPM Design Process Integrating Electromagnetic Design and Formula-Based Stiffness Analysis

Y. Lim[1], H. Kim[1], C. Lee[1], S. Park[1], W. Kim[2]

[1]Department of Next Generation Smart Energy System Convergence, Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of), [2]Department of Electrical Engineering, Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of)

BQ-08. Hybrid Permanent Magnet Structure Design for Improving Torque Density in Axial Flux Permanent Magnet Motors
Y. Lim[1], H. Kim[1], J. Moon[1], C. Kim[2], W. Kim[3]
[1]Department of Next Generation Smart Energy System Convergence, Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of), [2]Department of Electrical Engineering, Wonkwang University, Iksan-si, Jeonbuk-do, Korea (the Republic of), [3]Department of Electrical Engineering, Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of)

BQ-09. Analysis of Local Loss Density and Thermal Hotspots Driven by 3D Spatial Flux Harmonics in Axial Flux Permanent Magnet Motors
S. Oh, D. Kim, H. Kim, H. Lee
Dankook University, Yongin, Korea (the Republic of)

BQ-10. Performance Improvement of Permanent Magnet Machines With an ICP Rotor Through Optimal Stator Design
S. Song
Department of Electrical Energy Engineering, School of Electrical and Advanced Materials Engineering, Kyungguk National University, Andong, Korea (the Republic of)

BQ-11. Comparative Analysis of Electromagnetic Characteristics in Hollow Shaft Slotless Surface-mounted Permanent Magnet Synchronous Machines Using Analytical Method Considering Halbach Array
S. Yoon[1], J. Yang[1], S. Kim[1], H. Yu[1], C. W. Choi[1], Y. Yoon[1], K. Shin[2], J. Choi[1]
[1]Chungnam National University, Daejeon, Korea (the Republic of), [2]Changwon National University, Changwon, Korea (the Republic of)

BQ-12. Harmonic Modeling of PMa-SynRM under PWM Excitation Considering Nonlinear Inductance
H. Yu[1], S. Kim[1], Y. Yoon[1], C. W. Choi[1], S. Yoon[1], K. Shin[2], J. Choi[1]
[1]Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [2]AI Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

BQ-13. Robust Model-Free Predictive Current Control for PMSM via Pole-Zero Cancellation
J. Liu, Y. Luo, K. Yang
School of Electrical and Electronic Engineering, Huazhong University of Science and Technology, Wuhan, Hubei, China

BQ-14. Multi-Objective Design Optimization of Squirrel-Cage Induction Motor Using MOBO and Sensitivity Analysis
T. Kim[1], H. Ban[1], S. Eom[1], K. Shin[2], J. Choi[1]
[1]Department of Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [2]Department of AI Electrical Engineering, Changwon National University, Changwon, Gyeongsangnam-do, Korea (the Republic of)

SESSION BR: ULTRAFAST MAGNETISM, MAGNONICS AND SPIN DYNAMICS II (POSTER SESSION)

Chair(s): T. Hioki, *The University of Tokyo, Tokyo, Japan*
Tuesday, November 3, 2026
03:00 PM-06:00 PM
Coral 4

BR-01. Spin Wave Based Phased Array Beamforming
J. Fletcher, A. Jander, P. Dhagat
Electrical Engineering and Computer Science, Oregon State University, Corvallis, Oregon, United States

BR-02. Spin-Orbit Torque Lubrication at Pt/Co interface for Tunable Deterministic Switching with Stochasticity
M. Yang, C. Yang
Materials Science and Engineering, National Yang Ming Chiao Tung University, Hsinchu, Taiwan

BR-03. Simulation Analysis of Anisotropy-Gradient-Assisted SOT Magnetization Switching
K. Harada[1], K. Yamada[2], Y. Nakatani[1]
[1]Graduate School of Informatics and Engineering, University of Electro-Communications, Chofu, Tokyo, Japan, [2]Faculty of Engineering, Gifu University, Gifu, Japan

BR-04. Revealing origin of two-magnon scattering in YIG
J. Marquez Chavez, O. Wojewoda, C. A. Ross
MIT, Cambridge, Massachusetts, United States

BR-05. Wavevector-dependent Regeneration of Propagaing Magnons via Substrate Phonons in YIG/GGG
Y. Soon[1], M. Song[1], P. Cao Van[2], J. Baek[1], B. Park[3], J. Jeong[2], A. M. Park[1], K. Kim[1]
[1]Physics, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), [2]Materials Science and Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [3]Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of)

BR-06. Probing dynamics of magnetic interactions of rare-earth orthoferrites with double pulse THz emission spectroscopy
P. van Kuppevelt, A. V. Kimel
Ultrafast Spectroscopy of Correlated Materials, Radboud University, Nijmegen, Gelderland, Netherlands

BR-08. Plateau Dynamics and Optimal Pulse width in Sub-Nanosecond Spin-Orbit Torque Switching
J. Shin, S. Choe
Department of Physics and Astronomy, Seoul National University, Seoul, Korea (the Republic of)

BR-09. Spin Wave Dynamics in 2D Connected Kagome Artificial Spin Ice
N. ., R. Mehta, S. Saha
Physics, Ashoka University, Rai, Haryana, India

BR-10. Cluster Octupole Contribution to Spin Dissipation in Mn_3Sn/Co Bilayer Systems
J. Pi[1], S. Lee[1], E. Im[1], H. Kim[1], T. T. Nguyen[1], J. Park[2], S. Kim[1]
[1]University of Ulsan, Ulsan, Korea (the Republic of), [2]Daejeon University, Daejeon, Korea (the Republic of)

BR-11. Characteristics of multi-mode magnon hybrid interaction
A. M. Park[1], Y. Soon[1], S. Yang[1], J. Lee[1], P. Cao Van[2], J. Jeong[2], K. Kim[1]
[1]Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), [2]Chungnam National University, Daejeon, Korea (the Republic of)

BR-12. Spin wave propagation in magnonic crystals implemented by laser ablation.
C. L. Ordonez Romero[1], G. Pirruccio[1], Z. Lazcano[2], N. Qureshi[3]
[1]Instituto de Fisica, Ciudad de Mexico, Mexico, [2]Instituto de Fisica, BUAP, Puebla, Mexico, [3]ICAT, Ciudad de Mexico, Mexico

BR-13. The Driving Mechanism of FIB-Induced Spin-Wave Routing: A Magnetoelastic Origin
F. Naunheimer[1], J. Greil[1], V. Ahrens[1], M. Hofschen[1], D. Albano[1], L. Maucha[2], A. Papp[2], G. Csaba[2], M. Becherer[1]
[1]Technical University of Munich, Munich, Germany, [2]Pázmány Péter Catholic University, Budapest, Hungary

BR-14. Fabrication and Characterization of VCMA-Based Artificial Spin Ice Toward Electrical Control of Magnon Mode
O. Nakatani[1], S. Yoshii[2, 1], Y. Ando[1]
[1]Department of Physics and Electronics, Osaka Metropolitan University, Sakai, Osaka, Japan, [2]Department of Physics, Imperial College London, South Kensington, United Kingdom

BR-15. Floquet Magnons in Placoid-like Magnetic Lattices

J. Lima de Medeiros, F. H. SIlva Sales, M. da SIlva Tavares
Department of Physics, Federal Institute of Education, Science and Technology of Maranhão, São Luís, Maranhão, Brazil

BR-16LB. Magnetic-Field-Assisted Thermal Evolution from Stripe to Bubble Domains in Fe_3GaTe_2

C. Hsu[2], H. Shiu[1], W. Chen[1], P. Chang[3], Y. Su[4]
[1]National Synchrotron Radiation Research Center, Hsinchu, Taiwan, [2]Department of Physics, Chung Yuan Christian University, Taoyuan, Taiwan, [3]Department of Physics, Tamkang University, Taipei, Taiwan, [4]Jülich Centre for Neutron Science (JCNS) at Heinz Maier-Leibnitz Zentrum (MLZ), Forschungszentrum Jülich GmbH, Garching, Germany

BR-17LB. Symmetry-Preserving Graph Neural Networks for Large-Scale Spin Dynamics in Metallic Magnets

A. Rayat, Y. Fan, G. Chern
University of Virginia, Charlottesville, Virginia, United States

BIERSTUBE
Tuesday, November 3, 2026
05:30 PM-06:30 PM
Coral Lounge
Supported by

STUDENTS IN MAGNETISM NETWORKING EVENT
Tuesday, November 3, 2026
05:30 PM-07:00 PM
Rainbow Suite & Patio
Supported by

STANDARDS COMMITTEE MEETING
Tuesday, November 3, 2026
06:00 PM-07:30 PM
Hibiscus 2

SESSION CA: MAGNETIC RANDOM-ACCESS MEMORIES: WHAT'S COMING NEXT?
Chair(s): J. Nozieres, *CNRS, Grenoble, France*
Wednesday, November 4, 2026
08:30 AM-12:00 PM
Coral 3
Supported by
SNIA MRAM Alliance

08:30 AM-09:06 AM
CA-01. Spintronic Memory Evolution: STT-MRAM, SOT-MRAM, and Voltage-Controlled Switching Technologies
H. Yoda
YODA-S, Inc., Tsukuba, Japan

09:06 AM-09:42 AM
CA-02. Novel Type-C SOT-MRAM: Achieving Minimum Cell Size with Field-Free Switching
M. Song
tsmc, Hsinchu, Taiwan

09:42 AM-09:54 AM
CA-03. Exploring synthetic anti-ferromagnet magnetic tunnel junctions for low power, high-speed magnetic memories
D. Narducci[1], F. Garcia Redondo[2], L. Verschueren[1], R. Carpenter[1], X. Piao[1, 3], J. Chatterjee[1], M. Gama Monteiro[1], A. Palomino[1], N. Jossart[1], K. Wostyn[1, 4], S. Couet[1, 4], M. Bardon[1], G. Hellings[1], G. Sankar Kar[1], S. Rao[1]
[1]imec, Leuven, Belgium, [2]imec UK, Cambridge, United Kingdom, [3]University of Tokyo, Tokyo, Japan, [4]Vertical Compute SRL, Leuven, Belgium

09:54 AM-10:06 AM
CA-04. Measuring retention of perpendicular STT-MRAM cells with diameter around 20 nm
G. Mihajlović, W. Jung, N. Davila, H. J. Richter, M. Tran, T. Santos, J. Katine, M. Grobis
Western Digital, San Jose, California, United States

10:06 AM-10:18 AM
CA-07. Octupole-driven spin-transfer torque switching of all-antiferromagnetic tunnel junctions
J. Kang[1], M. Hamdi[1], S. Cheung[1], L. Yuan[1], M. A. Elekhtiar[2], E. Matt[1], N. Zogbi[8], W. Rogers[1], A. Meo[3], P. G. Lim[1], M. N. Tey[1], A. D'Addario[4], S. Konakanchi[5], J. G. Athas[1], S. Arpaci[1], A. Devincenti[1], S. Mehta[6], V. K. Sangwan[1], J. Fowlie[1], P. Upadhyaya[5], M. Carpentieri[3], V. P. Dravid[1], M. C. Hersam[1], J. C. Incorvia[8], J. Katine[6], G. Fuchs[4], G. Finocchio[7], E. Y. Tsymbal[2], J. M. Rondinelli[1], P. Khalili Amiri[1]
[1]Northwestern University, Evanston, Illinois, United States, [2]University of Nebraska-Lincoln, Lincoln, Nebraska, United States, [3]Politecnico di Bari, Bari, Italy, [4]Cornell University, Ithaca, New York, United States, [5]Purdue University, West Lafayette, Indiana, United States, [6]Western Digital Corporation, San Jose, California, United States, [7]University of Messina, Messina, Italy, [8]University of Texas at Austin, Austin, Texas, United States

10:18 AM-10:45 AM
Break

10:45 AM-11:21 AM
CA-05. Deterministic Field–Free SOT–induced Magnetization Switching of Perpendicularly Magnetized CoFeB Dots via Stacked Ferromagnetic and Nonmagnetic SOT Channels
M. Yoshikawa, R. Kawashige, T. Li, N. Umetsu, M. Quinsat
Frontier Technology R&D Institute, KIOXIA Corporation, Yokohama, Japan

11:21 AM-11:33 AM

CA-08. Field-Free Magnetization Switching Enabled by Intrinsic Out-of-Plane Spin Polarization in Altermagnetic RuO2

Z. Li[3, 2, 1], Z. Zhang[3, 2, 1], X. Lu[3, 2], Y. Xu[3, 2, 1]
[1]School of Electronic Science and Engineering, Nanjing University, Nanjing, China, [2]School of Integrated Circuits, Nanjing University, Suzhou, China, [3]State Key Laboratory of Spintronics, Nanjing University, Suzhou, China

11:33 AM-11:45 AM

CA-09. Voltage-assisted Single Laser Pulse in Magnetization Switching of Tb/Co-Based Magnetic Tunnel Junctions

Q. Trinh[1], J. Lin[2], B. Kunyangyuen[2], D. Salomoni[1], S. Auffret[1], G. Malinowski[2], E. Pargon[3], I. Prejbeanu[1], M. Hehn[2], S. Mangin[2, 4], L. D. Buda-Prejbeanu[1], R. Sousa[1]
[1]Université Grenoble Alpes, CEA, CNRS, Grenoble INP, SPINTEC, Grenoble, France, [2]Université de Lorraine, CNRS, Institut Jean Lamour, Nancy, France, [3]Université Grenoble Alpes, CNRS, CEA/LETI-Minatec, Grenoble INP, LTM, Grenoble, France, [4]Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan

SESSION CB: SEEING MAGNETISM DIFFERENTLY: EMERGING PHASES REVEALED BY ADVANCED X-RAY IMAGING

Co-Chair(s): L. Kern, *Massachusetts Institute of Technology, Cambridge, Massachusetts, United States* and K. Litzius, *Institute of Physics, University of Augsburg, Augsburg, Germany*

Wednesday, November 4, 2026

08:30 AM-12:00 PM

Coral 5

08:30 AM-09:06 AM

CB-01. Utilising altermagnetic properties for unique imaging and spectroscopy in MnTe

P. Wadley, A. Dal Din, O. Amin
School of Physics and Astronomy, University of Nottingham, Nottingham, County, United Kingdom

09:06 AM-09:18 AM

CB-02. X-ray Photoelectron Emission Microscopy of Crystallographic and Magnetic Domains in Non-Collinear Antiferromagnet Mn_3Sn Thin Films

S. Sakamoto[1, 2, 3], T. Higo[4], Y. Fukui[5, 3], Y. Sumida[5, 3], H. Kosaki[2], K. Amemiya[6], S. Nakatsuji[4, 2, 7], T. Ohkochi[5, 8, 3], S. Miwa[2, 3]
[1]Institute for Materials Research, Tohoku University, Sendai, Miyagi, Japan, [2]The Institute for Solid State Physics, The University of Tokyo, Kashiwa, Chiba, Japan, [3]SPRing-8 Center, RIKEN, Sayo, Hyogo, Japan, [4]Department of Physics, The University of Tokyo, Bunkyo, Tokyo, Japan, [5]Laboratory of Advanced Science and Technology for Industry, University of Hyogo, Sayo, Hyogo, Japan, [6]Institute of Materials Structure Science, KEK, Tsukuba, Ibaraki, Japan, [7]Institute for Quantum Matter and Department of Physics and Astronomy, Johns Hopkins University, Baltimore, Maryland, United States, [8]Japan Synchrotron Radiation Research Institute, Sayo, Hyogo, Japan

09:18 AM-09:30 AM

CB-03. Imaging the Magnetic-Field-Induced Reorientation of the NiO Néel Vector using XMLD-PEEM

D. Backes[1], E. Heppell[1, 2, 3], S. Langridge[3], G. van der Laan[1], T. Hesjedal[1, 2]
[1]Diamond Light Source, Didcot, United Kingdom, [2]Department of Physics, University of Oxford, Oxford, United Kingdom, [3]ISIS Neutron and Muon Source, STFC Rutherford Appleton Laboratory, Didcot, United Kingdom

09:30 AM-10:06 AM

CB-04. What do linear and circular X-rays probe in altermagnets?

H. Jani
Physics, University of Oxford, Oxford, United Kingdom

10:06 AM-10:18 AM

CB-05. Curvature engineered unconventional 3D spin textures in amorphous $Fe_{0.58}Ge_{0.42}$ thin films

J. Sands[1, 2], S. Satapathy[1], O. Bezsmertna[3], S. Virasawmy[1], A. Gashi[1], S. Dhuey[1], A. T. Hammack[1], C. Fernandez-Gonzalez[4], A. Sorrentino[4], T. Bayaraa[1], D. Makarov[3], S. M. Griffin[1], F. Hellman[1, 5], P. Fischer[1, 2]

[1]Lawrence Berkeley National Laboratory, Berkeley, California, United States, [2]UC Santa Cruz, Santa Cruz, California, United States, [3]Helmholtz Center Dresden-Rossendorf, Dresden, Germany, [4]ALBA, Cerdanyola del Vallès, Spain, [5]UC Berkeley, Berkeley, California, United States

10:18 AM-10:45 AM
Break

10:45 AM-11:21 AM

CB-07. Nanoscale mapping of unconfined magnetic systems using pre-edge phase 3D magnetic vector imaging

J. Neethirajan[1], B. Daurer[2], M. Di Pietro Martínez[1], A. Hrabec[3, 4], L. Turnbull[1, 2], R. Yamamoto[1, 5], M. Raboni Ferreira[1, 6, 7], A. Stefancic[8], D. Mayoh[8], G. Balakrishnan[8], P. Vir[1], C. Shekhar[1], C. Felser[1], M. Kazemian[2], B. Kaulich[2], C. Donnelly[1, 5]

[1]Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, [2]Diamond Light Source, Harwell Science and Innovation Campus, Didcot, United Kingdom, [3]Laboratory for Mesoscopic Systems, Department of Materials, ETH Zurich, Zurich, Switzerland, [4]Laboratory for Multiscale Materials Experiments, Paul Scherrer Institute, Villigen PSI, Switzerland, [5]International Institute for Sustainability with Knotted Chiral Meta Matter (WPI-SKCM2), Hiroshima University, Hiroshima, Japan, [6]Brazilian Synchrotron Light Laboratory, Brazilian Center for Research in Energy and Materials, Campinas, Brazil, [7]Gleb Wataghin Institute of Physics, University of Campinas, Campinas, Brazil, [8]Department of Physics, University of Warwick, Coventry, United Kingdom

11:21 AM-11:33 AM

CB-08. Seeing Through Magnets: Full 3D Imaging of a Hybrid Skyrmion Lattice via Soft X-Ray Vector Ptycho-Tomography

H. Fang[1], I. Binnie[1], B. Shearer[1], S. Yazdi[2], S. Montoya[3], E. Fullerton[3], T. Feggeler[4], J. Zou[5], C. Liao[6], E. Cating-Subramanian[1], D. Shapiro[7], J. Miao[8], H. C. Kapteyn[1], M. M. Murnane[1]

[1]JILA, Department of Physics, University of Colorado Boulder, Boulder, Colorado, United States, [2]Renewable And Sustainable Energy Institute, University of Colorado Boulder, Boulder, Colorado, United States, [3]University of California, San Diego, La Jolla, California, United States, [4]Brookhaven National Laboratory, Upton, New York, United States, [5]King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, [6]Indiana University Bloomington, Bloomington, Indiana, United States, [7]Lawrence Berkeley National Laboratory, Berkeley, California, United States, [8]University of California, Los Angeles, Los Angeles, California, United States

11:33 AM-11:45 AM

CB-09. 3D magnetic imaging of magnetic texture with X-ray Holography at SOLEIL SEXTANTS beamline: status and perspectives with SOLEIL II

J. J. Chiliquinga-Jacome[2], H. Popescu[1], M. Grelier[3], M. Di Pietro Martínez[4], A. Wartelle[5], G. Beutier[5], V. Cros[2], N. Reyren[2], N. Jaouen[1]

[1]Synchrotron SOLEIL, St Aubin, France, [2]Laboratoire Albert Fert, Palaiseau, France, [3]Spin-Ion Technologies, Palaiseau, France, [4]LCPMR, Paris, France, [5]Inst. Néel, Grenoble, France

SESSION CC: VAN DER WAALS MAGNETS AND MATERIALS

Chair(s): H. Yuasa, *Graduate School and Faculty of Information Science and Electrical Engineering, Kyushu University, Fukuoka, Japan*

Wednesday, November 4, 2026

08:30 AM-12:00 PM

Coral 1

08:30 AM-08:42 AM

CC-01. All-Electrical Manipulation of Néel Vector in Van der Waals Antiferromagnet

H. Guo[1], Z. Lin[1], C. Yu[2], Y. Hou[2], J. Yang[1], Z. Luo[1]

[1]School of Physics, Peking University, Beijing, China, [2]School of Materials, Sun Yat-Sen University, Shenzhen, China

08:42 AM-08:54 AM

CC-02. Covalent 2D Magnets: Expanding the Landscape of Layered Magnetism

H. Zeng[1], C. Huai[1], G. V. Silva[2], G. Miao[2], R. Sabirianov[3]

[1]Department of Physics, University at Buffalo, SUNY, Buffalo, New York, United States, [2]University of Waterloo, Waterloo, Ontario, Canada, [3]University of Nebraska-Omaha, Omaha, Nebraska, United States

08:54 AM-09:06 AM

CC-03. Topological Spin Textures in 2D Ferromagnets: From Fundamental Stabilization to Dynamic Phase Transformations

P. Cai[1], J. Garland[17, 18], J. Fullerton[18], J. Huang[2], T. Zhu[2], X. Ma[3], Z. Wang[4], R. Basnet[19], S. Chhetri[19], J. Hu[19], R. Zhang[6], Y. Hao[2], J. Lu[5], L. He[2], J. Xu[2], Y. Zhang[7, 8], W. Jiang[9, 10], J. Tao[4], S. Lei[11], P. Parchinskiy[12], Y. Li[18], A. Petford-Long[18, 20], L. Wang[5], W. Niu[13], X. Zhang[16], P. Li[2], C. Phatak[18, 20], E. Santos[1, 14, 15]

[1]School of Physics and Astronomy, The University of Edinburgh, Edinburgh, United Kingdom, [2]School of Microelectronics, University of Science and Technology of China, Hefei, Anhui, China, [3]College of Integrated Circuits and Optoelectronic Chips, Shenzhen Technology University, Shenzhen, Guangdong, China, [4]Department of Physics, University of Science and Technology of China, Hefei, Anhui, China, [5]Hefei National Research Center for Physical Sciences at Microscale, University of Science and Technology of China, Hefei, Anhui, China, [6]School of Integrated Circuits, Huazhong University of Science and Technology, Wuhan, Hubei, China, [7]State Key Laboratory of High-end Heavy-load Robots Corporate Research Center, Midea Group, Foshan, China, [8]Corporate Research Center, Midea Group, Foshan, China, [9]State Key Laboratory of Low-Dimensional Quantum Physics and Department of Physics, Tsinghua University, Beijing, China, [10]Frontier Science Center for Quantum Information, Tsinghua University, Beijing, China, [11]Hong Kong University of Science and Technology, Hong Kong, Hong Kong, [12]Department of Semiconductor and Polymer Physics, National University of Uzbekistan, Tashkent, Uzbekistan, [13]New Energy Technology Engineering Laboratory of Jiangsu Province, Nanjing University of Posts and Telecommunications, Nanjing, Jiangsu, China, [14]Higgs Centre for Theoretical Physics, The University of Edinburgh, Edinburgh, United Kingdom, [15]Donostia International Physics Center, Donostia-San Sebastián, Spain, [16]School of Physics, Southeast University, Nanjing, Jiangsu, China, [17]Applied Physics Program, Northwestern University, Evanston, Illinois, United States, [18]Materials Science Division, Argonne National Laboratory, Lemont, Illinois, United States, [19]Department of Physics, University of Arkansas, Fayetteville, Arizona, United States, [20]Materials Science and Engineering Department, Northwestern University, Evanston, Illinois, United States

09:06 AM-09:18 AM

CC-04. Spin-transport Properties of Chiral Helimagnet $Cr_{1/3}TaS_2$ Nanoflakes

K. Yamada[1], N. Jiang[1, 2, 3], F. Tokuda[1], R. Nakamura[1], H. Shoji[4], Y. Kousaka[4], Y. Togawa[4], Y. Niimi[1, 2, 3]

[1]Department of Physics, The University of Osaka, Toyonaka, Japan, [2]Center for Spintronics Research Network, The University of Osaka, Toyonaka, Japan, [3]Institute for Open and Transdisciplinary Research Initiatives, The University of Osaka, Toyonaka, Japan, [4]Department of Physics and Electronics, Osaka Metropolitan University, Sakai, Japan

09:18 AM-09:30 AM

CC-05. Evidence of Magnetic Proximity Effect in van der Waals Graphene/Fe_3GeTe_2 Heterostructures

M. Aoki[1, 2], J. E. Medina Dueñas[2, 4], T. Guillet[2], V. Zatko[2], K. Watanabe[3], T. Taniguchi[5], J. H. Garcia[2], J. F. Sierra[2], M. Shiraishi[6, 7], S. Roche[2, 8], S. O. Valenzuela[2, 8]

[1]The Institute for Solid State Physics, The University of Tokyo, Kashiwa, Chiba, Japan, [2]Catalan Institute of Nanoscience and Nanotechnology, Bellaterra, Barcelona, Spain, [3]Research Center for Electronic and Optical Materials, National Institute for Materials Science, Tsukuba, Ibaraki, Japan, [4]Universitat Autònoma de Barcelona, Bellaterra, Barcelona, Spain, [5]International Center for Materials Nanoarchitectonics, National Institute for Materials Science, Tsukuba, Ibaraki, Japan, [6]Department of Electronic Science and Engineering, Kyoto University, Kyoto, Kyoto, Japan, [7]Center for Spintronics Research Network, Kyoto University, Kyoto, Kyoto, Japan, [8]Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Barcelona, Spain

09:30 AM-09:42 AM

CC-06. Computational and experimental study of metallic interfaces with semiconducting monolayer of MoS_2

A. J. Stollenwerk[1], C. Sadler[1], T. Porter[1], G. Ye[2], C. Nnokwe[2], P. Shand[1], R. He[2], P. Lukashev[1]

[1]Physics, University of Northern Iowa, Cedar Falls, Iowa, United States, [2]Texas Tech University, Lubbock, Texas, United States

09:42 AM-09:54 AM

CC-07. Emergent topological Hall effect in twisted bilayer Fe_3GeTe_2 moiré system

Y. Li

Nankai University, Tianjin, China

09:54 AM-10:06 AM

CC-08. Carrier-Type-Dependent Valley Polarization Switching in Monolayer WSe_2 via Single-Contact Electrostatic Doping

J. Siao[1], H. Lin[1], T. Lin[1], Y. Chu[1], M. Lin[1, 2, 3]

[1]Physics, National Taiwan University, Taipei, Taiwan, [2]Institute of Atomic and Molecular Sciences, Academia Sinica, Taipei, Taiwan, [3]Research Center for Applied Sciences, Academia Sinica, Taipei, Taiwan

10:06 AM-10:18 AM

CC-09. Preferential Magnetic Domain Nucleation at Terrace Edges in Fe_3GaTe_2/V-doped WSe_2 heterostructures

J. Lee[1], J. Gu[1], W. Kim[1], J. Lee[3, 5], W. Chao[4], K. Lee[2], Z. Q. Qiu[5], M. Im[4], H. Han[1]

[1]Department of Materials Science and Engineering, Korea National University of Transportation, Chungju, Chungcheongbuk-do, Korea (the Republic of), [2]Department of Materials Science and Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan, Ulsan, Korea (the Republic of), [3]Department of Physics, Kyungpook National University, Daegu, Daegu, Korea (the Republic of), [4]Center for X-ray Optics, Lawrence Berkeley National Laboratory (LBNL), Berkeley, California, United States, [5]Department of Physics, University of California, Berkeley, Berkeley, California, United States

10:18 AM-10:45 AM
Break

10:45 AM-10:57 AM

CC-10. Multi-modal spin-orbit torque metrology applied to van der Waals heterostructures

T. Pham[1], S. Fekraoui[2], M. Dehaghani[2], S. Plissard[2], T. Blon[1], T. Guillet[1]

[1]LPCNO, Toulouse, France, [2]LAAS, Toulouse, France

10:57 AM-11:09 AM

CC-11. Epitaxial Growth and Magnetic Ordering of Antiferromagnetic Topological Insulator $MnBi_2Te_4$ Thin Films

S. Choudhury[1], B. Sharif[1], R. E. Baumbach[1, 2], D. Lederman[1, 2]

[1]Department of Physics, University of California, Santa Cruz, Santa Cruz, California, United States, [2]Materials Science and Engineering Program, University of California, Santa Cruz, Santa Cruz, California, United States

11:09 AM-11:21 AM

CC-12. Interfacial Spin–Orbit-Coupling Effects Probed by Spin Hall Magnetoresistance in Graphene/$IrMn_3$/Co Heterostructures

N. Do[1], S. Song[2], S. Park[2], C. Hwang[3], T. Kim[1]
[1]Physics, Ewha Womans University, Seoul, Korea (the Republic of), [2]Department of Physics, Pusan National University, Busan, Korea (the Republic of), [3]Korea Research Institute of Standards and Science, Daejeon, Korea (the Republic of)

11:21 AM-11:33 AM

CC-13. Magnetic properties of epitaxial Fe_3Si/α-$FeGe_2$ multilayer films

M. Rovirola[1], A. Hernández-Mínguez[2], J. Herfort[2]
[1]University of Barcelona, Barcelona, Spain, [2]Paul-Drude-Institue for Solid State Electronics, Berlin, Germany

11:33 AM-11:45 AM

CC-14. Strain induced magnetic phase transitions in Fe_3GeTe_2 monolayer

A. Jyothi Bhasu[1], L. Szunyogh[1, 2], L. Rózsa[3, 1], L. Udvardi[1], L. Oroszlány[4], G. Martínez-Carracedo[5], J. Ferrer[5]
[1]Department of Theoretical Physics, Budapest University of Technology and Economics, Budapest, Hungary, [2]HUN-REN-BME Condensed Matter Research Group, Budapest University of Technology and Economics, Budapest, Hungary, [3]Wigner Research Centre of Physics, HUN-REN, Budapest, Hungary, [4]Department of Physics of Complex Systems, Eötvös Loránd University, Budapest, Hungary, [5]Departamento de Física, Universidad de Oviedo, Oviedo, Spain

11:45 AM-11:57 AM

CC-15. Controlling magnetism and transports via phase transition in Cr-Te films with intercalated van der Waals structures

S. Mori[1, 2], S. Hatayama[3], K. Hirata[1, 2], T. Hirai[2, 1], S. Takano[1, 2], F. Ando[2], Y. Nakanishi[1, 2], K. Uchida[1, 2]
[1]Department of Advanced Materials Science, Graduate School of Frontier Sciences, The University of Tokyo, Kashiwa, Japan, [2]Research Center for Magnetic and Spintronic Materials, National Institute for Materials Science (NIMS), Tsukuba, Japan, [3]Semiconductor Frontier Research Center, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan

SESSION CD: BIOMAGNETISM AND BIOMEDICAL APPLICATIONS I

Chair(s): R. L. Hadimani, *Mechanical and Nuclear Engineering, Virginia Commonwealth University, Richmond, Virginia, United States*

Wednesday, November 4, 2026

08:30 AM-12:00 PM

Coral 2

08:30 AM-09:06 AM

CD-01. Enhanced Magnetic Performance of Anisotropic Iron and Iron Oxide Nanostructures for Advanced Biomedical Applications

F. Fernandez[1], S. Caspani[2], A. Cruz[1], M. Manso[1], D. Navas[3], C. Tavares de Sousa[1]
[1]Fisica Aplicada, Universidad Autonoma de Madrid, Madrid, (Seleccionar), Spain, [2]IFIMUP, Porto University, Porto, Portugal, [3]ICMM-CSIC, Madrid, (Seleccionar), Spain

09:06 AM-09:42 AM

CD-02. Bioengineered Magnetic Nanoparticles for Advanced Theranostics

U. Wiedwald
Faculty of Physics, University of Duisburg-Essen, Duisburg, Germany

09:42 AM-09:54 AM

CD-03. Manganese-Substituted Cobalt Ferrite-Barium Titanate Magnetoelectric Core-Shell Nanoparticles Enable Low-Threshold Neural Stimulation In Vivo

A. Vezzoni[1], E. Zhang[1], E. Bondan[1], M. Accursi[1], A. Suarez-Perez[2], J. Merino-Martinez[2], C. Franco[1], S. Pané[1]
[1]MAVT, ETH Zurich, Zürich, Switzerland, [2]Institut d'Investigacions Biomèdiques Pi i Sunyer, Barcelona, Spain

09:54 AM-10:06 AM

CD-04. Magnetophoretic Cell Separation Using Additively Manufactured Magnetic Nanoink Structures

D. M. Phan[1], L. Nguyen T. Tran[1], B. Rezaei[2], R. Vera[1], S. Boswell[1], N. Paul[1], H. Hridoy[1], H. Wang[2], S. Mostufa[2], K. Wu[2], M. Zeng[1], J. Yang[3], Y. Eo[4], J. Gomez-Pastora[1]

[1]Chemical Engineering, Texas Tech University, Lubbock, Texas, United States, [2]Electrical & Computer Engineering, Texas Tech University, Lubbock, Texas, United States, [3]Mechanical Engineering, Texas Tech University, Lubbock, Texas, United States, [4]Physics, Texas Tech University, Lubbock, Texas, United States

10:06 AM-10:18 AM

CD-05. Two-stage microfluidic CTC isolation using self-assembled ferromagnetic microstructures

D. Le Roy[1], E. Dupont[1, 2], L. Artinyan[2], C. Brunin[3], M. Piecyk[3], L. Payen[3], A. Deman[2]

[1]Universite Lyon 1, CNRS, Institut Lumière Matière, UMR5306, Villeurbanne, France, [2]Université Lyon 1, CNRS, INSA Lyon, Ecole Centrale de Lyon, CPE Lyon, INL, UMR5270, Villeurbanne, France, [3]Laboratoire de Biochimie Et Biologie Moléculaire, Groupe Hospitalier Sud, Hospices Civils de Lyon, Pierre Bénite, France

10:18 AM-10:45 AM
Break

10:45 AM-10:57 AM

CD-06. Viscosity Dependence of Heating Efficiency in High-Efficiency Pulsed-Field Magnetic Hyperthermia

S. Takamatsu, A. Kuwahata, Y. Fukuoka, S. Yabukami

Tohoku University, Sendai, Japan

10:57 AM-11:09 AM

CD-07. Magnetic Disk Particles for Hyperthermia, Imaging and directional Biosensing

H. J. Hug[1, 2], E. Mayr[1, 3, 4], J. Ackers[5], H. Wei[5], S. Helbig[6], S. Koraltan[7], M. Krupinski[8], D. Suess[6], M. Graeser[9], I. K. Herrmann[3, 4]

[1]Magnetic and Functional Thin Films, Empa, Duebendorf, Switzerland, [2]Department of Physics, University of Basel, Basel, Switzerland, [3]Department of Mechanical and Process Engineering, ETH Zurich, Zurich, Switzerland, [4]Ingenuity Lab, Balgrist University Hospital and University of Zurich, Zurich, Switzerland, [5]Fraunhofer Research Institution for Individualized and Cell-Based Medical Engineering, Fraunhofer IMTE, Luebeck, Germany, [6]Physics of Functional Materials, University of Vienna, Vienna, Austria, [7]Department of Physics, Technical University Vienna, Vienna, Austria, [8]Institute of Nuclear Physics Polish Academy of Sciences, Krakov, Poland, [9]University Rostock,, Rostock, Germany

11:09 AM-11:21 AM

CD-08. Latest Strategies in the Synthesis, Characterization, and Deployment of Chiral Magnetic Nanoparticles in Cancer Treatment

A. S. Poulo, M. Khandaker, T. Lamichhane

Engineering & Physics, University of Central Oklahoma, Edmond, Oklahoma, United States

11:21 AM-11:33 AM

CD-09. Investigating Effects of Magnetostatic Offsets on Hysteresis for Spatially Selective Heating of Magnetite Nanoparticles

X. Smith[1], S. Lee[2], D. Bono[2], J. Beckham[4], M. Christiansen[3], P. Anikeeva[2]

[1]Electrical Engineering and Computer Science, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States, [2]Department of Materials Science, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States, [3]ETH Zurich, Zurich, Switzerland, [4]Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States

11:33 AM-11:45 AM

CD-10. In Vitro Magnetic Hyperthermia of Mn–Zn Ferrite Nanoparticles: Influence of Particle Size and Ultrasound

E. Jaberolansar[1], T. Afsari[2], S. Mohapatra[2, 3], S. Mohapatra[4, 3], H. Srikanth[1]
[1]Physics, University of South Florida, Tampa, Florida, United States, [2]Internal Medicine, Morsani College of Medicine,, University of South Florida, Tampa, Florida, United States, [3]Research Service, James A., Haley Veterans Hospital, Tampa, Florida, United States, [4]Molecular Medicine, Morsani college of Medicine, University of South Florida, Tampa, Florida, United States

11:45 AM-11:57 AM

CD-11. Magneto-Mechanical Driven Nanomagnets for Cancer Therapy: Bypassing Hyperthermia

A. El-Gendy
Physics, University of Texas at El Paso, El Paso, Texas, United States

SESSION CE: MAGNETIC SENSORS AND HIGH-FREQUENCY DEVICES

Chair(s): S. Yabukami, *Tohoku University, Sendai, Miyagi, Japan*
Wednesday, November 4, 2026
08:30 AM-12:00 PM
South Pacific 1/2

08:30 AM-09:06 AM

CE-01. From Skyrmion Stacks to Ultrasensitive Magnetic Field Sensor

L. Malucelli[1], A. Arredondo-López[1], M. Caseiro[2], E. Yildiz[1], I. Joumard[1], N. Mollard[1], S. Auffret[1], J. Faure-Vincent[1], G. Gaudin[1], B. Dieny[1], C. Baraduc[1], L. Ranno[3], J. Kammerer[4], C. Fermon[2], A. Solignac[2], M. Pannetier-Lecoeur[2], J. Fischer[1], H. Béa[1, 5]
[1]Univ. Grenoble Alpes, CNRS, CEA, SPINTEC, Grenoble, France, [2]Université Paris-Saclay, CEA, CNRS, SPEC, Gif-sur-Yvette, France, [3]Institut Néel, Univ. Grenoble Alpes, CNRS, Grenoble, France, [4]ICube, University of Strasbourg, Strasbourg, France, [5]Institut Universitaire de France (IUF), Paris, France

09:06 AM-09:18 AM

CE-02. Flux Concentrator-Enhanced NV Magnetometry for MEG Applications

Y. Baba[1], T. Zhu[1], n. sekiguchi[2], Y. Kainuma[3], M. Sekino[1]
[1]Graduate School of Engineering, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, [2]Institute of Science Tokyo, Department of Electrical and Electronic Engineering, Meguro-ku, Tokyo, Japan, [3]Global Research and Development Center for Business by Quantum-AI Technology (G-QuAT), National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Ibaraki, Japan

09:18 AM-09:30 AM

CE-04. Magnetization Pattern Identification Using Highly Sensitive Tunnel Magnetoresistance Sensors and Deep Learning-Based Classification

T. Hojo[1, 2], T. Kubota[1], H. Fukushima[3], M. Endo[1], K. Fujiwara[3], H. Matsuzaki[3], T. Yoshidome[2], I. Yamane[4], K. Onishi[4], M. Oogane[2, 5], Y. Ando[1, 2, 5]
[1]Advanced Spintronics Medical Engineering, Tohoku University, Sendai, Miyagi, Japan, [2]Department of Applied Physics, Tohoku University, Sendai, Miyagi, Japan, [3]Spin Sensing Factory Corporation, Sendai, Miyagi, Japan, [4]Otsuka Pharmaceutical Co., Ltd., Chiyoda-ku, Tokyo, Japan, [5]Center for Science and Innovation in Spintronics, Sendai, Miyagi, Japan

09:30 AM-09:42 AM

CE-05. Four-Wave Mixing and Tunable Gain in a Hybrid Magnonic–Superconducting Resonator System

P. Pal[1, 2], J. Lim[1], M. Song[2, 3], S. Kruhlov[4], T. W. Cecil[4], U. Welp[2], R. Divan[5], K. Kim[3], V. Novosad[2], A. Hoffmann[1], Y. Li[2]
[1]Department of Materials Science and Engineering and Materials Research Laboratory, University of Illinois Urbana Champaign, Urbana, Illinois, United States, [2]Materials Science Division, Argonne National Laboratory, Lemont, Illinois, United States, [3]Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), [4]High Energy Physics Division, Argonne National Laboratory, Lemont, Illinois, United States, [5]Center for Nanoscale Materials, Argonne National Laboratory, Lemont, Illinois, United States

09:42 AM-09:54 AM

CE-06*. Magnetically Programmable Multichannel Isolation via Strong Magnon-Phonon Coupling in a Non-Reciprocal Magnetoacoustic Cavity for Advanced RF Routing

B. Luo*[2], J. Yao[1], A. Winkler[3], D. A. Bas[4], H. Schmidt[3], S. Wohlrab[3], J. Dickovick[5], V. Sharma[5], A. Huang[2], T. Zhou[6], M. McConney[4], M. Page[4], M. Sanghadasa[7], V. Lauter[8], M. Wu[5, 2], C. Hu[1], N. X. Sun[2]

[1]Department of Physics and Astronomy, University of Manitoba, Winnipeg, Manitoba, Canada, [2]Department of Electrical and Computer Engineering, Northeastern University, Boston, Massachusetts, United States, [3]SAW Lab Saxony Leibniz IFW, Leibniz Institute for Solid State and Materials Research, Dresden, Germany, [4]Materials and Manufacturing Directorate Institution, Air Force Research Laboratory, Wright-Patterson AFB, Ohio, United States, [5]Department of Physics, Northeastern University, Boston, Massachusetts, United States, [6]Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States, [7]DEVCOM Aviation & Missile Center, U.S. Army Combat Capabilities Development Command, Huntsville, Alabama, United States, [8]Neutron Sciences Directorate, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States

09:54 AM-10:06 AM

CE-07*. Low insertion losses microscale spin-wave RF devices

K. Davídková*[1, 3], F. Bruckner[1], I. K. Douveas[1], C. Dubs[2], K. Levchenko[1], D. Suess[1], A. Chumak[1]

[1]Faculty of Physics, University of Vienna, Vienna, Austria, [2]Technologieentwicklung, INNOVENT e. V., Jena, Germany, [3]Faculty of Physics, Vienna Doctoral School of Physics, Vienna, Austria

10:06 AM-10:45 AM

Break

10:45 AM-10:57 AM

CE-09. Optimization of Fe3O4–PDMS Composite Membranes for High-Performance TMR based Gas Sensors

P. Pal, S. Amara, H. Bagci, G. Setti

CEMSE, KAUST, Thuwal, Saudi Arabia

10:57 AM-11:09 AM

CE-10. Modeling Time-Modulated Magnetoplasmonic Graphene Scatterers Using Quasi-Normal Mode Expansion

S. Amanatiadis[1], T. Ohtani[2], N. V. Kantartzis[1], Y. Kanai[3]

[1]Aristotle University of Thessaloniki, Thessaloniki, Greece, [2]1-17-134 Omachi, Asahikawa, Japan, [3]Niigata Institute of Technology, Kashiwazaki, Japan

11:09 AM-11:21 AM

CE-12. Leveraging Higher Order Mode for Magnetic Field Sensing in AlN-based Single-Port Delay Line Resonator

T. Burman, D. Kaur

Physics, Indian Institute of Technology, Roorkee, Uttarakhand, India

SESSION CF: SUPERCONDUCTING AND ANTIFERROMAGNETIC SPINTRONICS
Chair(s): H. Arava, *Argonne National Laboratory, Lemont, Illinois, United States*
Wednesday, November 4, 2026
08:30 AM-12:00 PM
South Pacific 3/4

08:30 AM-08:42 AM
CF-01. Non-linear rectification effect in superconducting diode effect
U. Nagata[1], M. Aoki[1], A. Daido[2], R. Ohshima[1], S. Kasahara[3], Y. Kasahara[4], Y. Ando[1], Y. Matsuda[2], Y. Yanase[2], M. Shiraishi[1]
[1]Electronic Science and Engineering, Kyoto University, Kyoto, Japan, [2]Department of Physics, Kyoto University, Kyoto, Japan, [3]RIIS, Okayama University, Okayama, Japan, [4]Department of Physics, Kyushu University, Hukuoka, Japan

08:42 AM-08:54 AM
CF-02. Proximity effects in superconductor/magnetic epitaxial heterostructures with magnetic noncollinearity
H. C. TADAHA[1, 2, 3], T. Hauet[1, 2, 3], K. Dumesnil[1, 2, 3]
[1]Institut Jean Lamour, Nancy, France, [2]Université de Lorraine, Nancy, France, [3]CNRS, Nancy, France

08:54 AM-09:06 AM
CF-03. Magnetic and spin-pumping properties of MgB_2-based and NbN-based multilayers
L. Peridon[1, 2, 3], T. Courtois[1, 2, 3], S. Mangin[1, 2, 3], T. Hauet[1, 2, 3], K. Dumesnil[1, 2, 3]
[1]Institut Jean Lamour, Nancy, France, [2]Université de Lorraine, Nancy, France, [3]CNRS, Nancy, France

09:06 AM-09:18 AM
CF-04. Non-reciprocal Properties in Pt/Fe/Pt-inserted Nb/V/Ta Superconducting Superlattices
F. Tokoro[1], H. Matsuki[2, 3], S. Hirata[1], T. Mandokoro[1], R. iijima[1], R. Hisatomi[2, 3], S. Karube[2, 3], Y. Shiota[2, 3], T. Ono[2, 3, 4]
[1]Graduate School of Science, Kyoto University, Uji, Kyoto, Japan, [2]Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan, [3]Center for Spintronics Research Network, Kyoto University, Uji, Kyoto, Japan, [4]International Center for Synchrotron Radiation Innovation Smart, Tohoku University, Uji, Kyoto, Japan

09:18 AM-09:30 AM
CF-05. Charge to Spin Conversion in the Superconducting State
P. Sivakumar, Y. Wu, P. Madhusudan Rao, I. Kindiak, Y. Xie, S. Parkin
NISE, Max Planck Institute of Microstructure Physics, Halle (Saale), Saxony-Anhalt, Germany

09:30 AM-09:42 AM
CF-06. Leveraging Magnetic Distortion Symmetry Groups to Elucidate the Multiferroic Origins of Altermagnetism
M. D. Kitcher, G. Beach
Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States

09:42 AM-09:54 AM
CF-07. Enhanced field-free spin-orbit torque switching in ferrimagnetic trilayers
S. Ko[1], D. Han[2], N. Kim[2], G. Baek[1], K. Kim[1, 3], B. Park[2]
[1]Physics, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), [2]Material Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), [3]Graduate School of Quantum Science and Technology, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of)

09:54 AM-10:06 AM

CF-10. Nonvolatile optical control of antiferromagnetic domains in $LiNiPO_4$

S. Toyoda[1], V. Kocsis[2], Y. Tokunaga[3], I. Kézsmárki[4], Y. Taguchi[1], T. Arima[1, 3], Y. Tokura[1, 5], N. Ogawa[1]
[1]CEMS, RIKEN, Wako, Japan, [2]Institut für Festkörperforschung, Dresden, Germany, [3]Department of Advanced Materials Science, The University of Tokyo, Kashiwa, Japan, [4]University of Augsburg, Augsburg, Germany, [5]Tokyo College and department of Applied Physics, The University of Tokyo, Tokyo, Japan

10:06 AM-10:18 AM

CF-11. A Spin-Orbit Torque Pulley Embedded in an Exchange-Spring-Coupled Antiferromagnet/Ferromagnet Bilayer with Pulse-Dependent Plasticity for Efficient Neuromorphic Computing

M. Yang, C. Yang
Material Science and Engineering, National Yang Ming Chiao Tung University, Hsinchu, Taiwan, Taiwan

10:18 AM-10:45 AM
Break

10:45 AM-10:57 AM

CF-12. Isothermal Manipulation of Exchange Bias between the Chiral Antiferromagnet Mn_3Sn and Ferromagnets

M. Asakura[1], T. Higo[2, 1, 3], T. Matsuo[4, 1], Y. Tsushima[1], S. Kurosawa[1], R. Uesugi[5, 1], D. Nishio-Hamane[3], S. Nakatsuji[1, 3, 4]
[1]Department of Physics, The University of Tokyo, Tokyo, Japan, [2]Department of Electronics and Electrical Engineering, Keio University, Yokohama, Japan, [3]Institute for Solid State Physics, The University of Tokyo, Kashiwa, Japan, [4]Institute for Quantum Matter and Department of Physics and Astronomy, Johns Hopkins University, Baltimore, Maryland, United States, [5]Graduate School of Science and Engineering, Ibaraki University, Hitachi, Japan

10:57 AM-11:09 AM

CF-13. A Metallicity-Screened High-Throughput DFT Workflow for Predicting Magnetic Ground States: Toward the Search for Metallic Altermagnets

S. Pradhan, K. Belashchenko
Department of Physics and Astronomy and Nebraska Center for Materials and Nanoscience, University of Nebraska-Lincoln, Lincoln, Nebraska, United States

11:09 AM-11:21 AM

CF-15. Thickness-dependent magnetic properties of 25% Mn-doped HoFeO3 thin films: structural comparison on SrTiO3 and LaAlO3 substrates

S. Das, S. Saha, A. Kumar, M. P, P. K. Muduli, S. P. N.
Physics, IIT Madras, Chennai, Tamilnadu, India

SESSION CG: ORBITRONICS

Chair(s): E. A. Montoya, *Physics and Astronomy, University of Utah, South Salt Lake, Utah, United States*

Wednesday, November 4, 2026

08:30 AM-12:00 PM

Sea Pearl

08:30 AM-08:42 AM

CG-01. Field-free perpendicular magnetization switching in 2D-MXene/FM bilayers without relying on heavy metals

P. Kumar, G. K. Shukla, S. Isogami

NIMS, Tsukuba, Japan

08:42 AM-08:54 AM

CG-03. Spin angular momentum contributions in the magneto-photogalvanic effect

A. Kamiryo[1], M. Yamamoto[2], T. Nishijima[2], R. Ohshima[2], M. Shiraishi[2], Y. Ando[1]

[1]Physics and Electronics, Osaka Metropolitan Univ., Sakai, Osaka, Japan, [2]Electronic Engineering, Kyoto Univ., Kyoto, Japan

08:54 AM-09:30 AM

CG-04. Giant orbital Rashba-Edelstein effect in crystalline Cu_2O/Cu heterostructures

S. Ko[2], J. Kang[3], S. Kim[4], H. Jang[1], D. Nam[2], Y. Jung[1], S. Jeong[2, 5], K. Kim[2], B. Park[1]

[1]Materials Science and Engineering, KAIST, Daejeon, Korea (the Republic of), [2]Physics, KAIST, Daejeon, Korea (the Republic of), [3]Department of Electrical and Computer Engineering, Northwestern University, Evanston, Illinois, United States, [4]Pusan National University, Busan, Korea (the Republic of), [5]Pusan National University, Busan, Korea (the Republic of)

09:30 AM-09:42 AM

CG-05. Chirality-Induced Spin Selectivity in Conjugated Polymers

U. Lee[1], M. Yoo[1], S. Jeon[2], Y. Chen[2], J. Neu[3], S. Li[1], W. You[3], Y. Diao[2], A. Hoffmann[1]

[1]Materials Science and Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, United States, [2]Chemical and Biomolecular Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, United States, [3]Chemistry, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, United States

09:42 AM-09:54 AM

CG-07. Highly Efficient Spin-to-Charge Conversion in Bylayers of Light Elements

Y. Kabata[1], M. Ishida[1], T. Takeda[3], M. Tanaka[1, 2], L. Anh[1, 2]

[1]Electrical Engineering and Information Systems, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, [2]Spintronics Research Network of Japan, Bunkyo-ku, Tokyo, Japan, [3]Department of Chemical System Engineering, The University of Tokyo, Bunkyo-ku, Tokyo, Japan

09:54 AM-10:06 AM

CG-08. Tunneling of orbital angular momentum

A. Du[1], S. Ding[3], M. Leaic[2], S. Krishnia[1], A. Manchon[4], Y. Mokrousov[1, 2], M. Kläui[1]

[1]Institute of Physics, Johannes Gutenberg University Mainz, Mainz, Germany, [2]Peter Grunberg Institute, Forschungszentrum Jülich, Jülich, Germany, [3]Nanyang Technological University, Singapore, Singapore, [4]Aix-Marseille University, Marseille, France

10:06 AM-10:42 AM

CG-09. Disorder Effects on Orbital Transport in Two-Dimensional Materials

T. G. Rappoport[1, 2, 3]

[1]Brazilian Center of Physical Research, Rio de Janeiro, RJ, Brazil, [2]Physics, Minho University, Braga, Portugal, [3]International Iberian Nanotechnology Laboratory, Braga, Portugal

SESSION CH: ULTRAFAST I
Chair(s): A. De, *Advanced Institute for Materials Research (AIMR) , Tohoku University, Sendai , Japan*
Wednesday, November 4, 2026
08:30 AM-12:00 PM
Nautilus

08:30 AM-09:06 AM
CH-01. Picosecond spin pumping from magnetically compensated materials
C. Ciccarelli
University of Cambridge, Cambridge, United Kingdom

09:06 AM-09:18 AM
CH-02. Tunable Ultrastrong Magnon-Magnon Coupling and Squeezed States in a Triaxial Van der Waals Antiferromagnet
X. Xiao[1], Z. Li[1], Z. Tao[1], L. Chen[2, 3], P. Liu[2], S. Zhang[1], H. Wang[1], Y. Pu[2], R. Liu[1, 4]
[1]School of Physics, Nanjing University, Nanjing, Jiangsu, China, [2]School of Science, Nanjing University of Posts and Telecommunications, Nanjing, Jiangsu, China, [3]Laboratory of Solid State Microstructures, Nanjing, Jiangsu, China, [4]State Key Laboratory of Spintronics, Suzhou, Jiangsu, China

09:18 AM-09:30 AM
CH-03. Phonon-Driven Spin Dynamics in Rare-Earth Orthoferrites across Spin Reorientation Temperatures
M. Hales[1], O. Kovalenko[1], D. Afanasiev[2], A. V. Kimel[2], R. V. Mikhaylovskiy[1]
[1]Physics Department, Lancaster University, Lancaster, United Kingdom, [2]Institute for Molecules and Materials, Radboud University, Nijmegen, Netherlands

09:30 AM-10:06 AM
CH-04. Magnetization reversal induced by an irradiation of ultrafast pulsed laser
H. Wadati
University of Hyogo, Hyogo, Japan

10:06 AM-10:18 AM
CH-05. Interference of Terahertz Antiferromagnetic Magnons via Internal Reflections
G. Baek[1], A. M. Park[1], K. Kim[1, 2]
[1]Physics, KAIST, Daejeon, Korea (the Republic of), [2]Graduate School of Quantum Science and Technology, KAIST, Daejeon, Korea (the Republic of)

10:18 AM-10:45 AM
Break

10:45 AM-10:57 AM
CH-06. Correlating ultrafast demagnetization with THz emission in spintronic heterostructures
S. Shrestha[1], L. Scheuer[1], W. Wu[1], N. Parvez[1], A. Kefayati[1], J. Q. Xiao[1], B. Nikolić[1], B. Jungfleisch[1], L. Gundlach[1, 2]
[1]Physics and Astronomy, University of Delaware, Newark, Delaware, United States, [2]Chemistry and Biochemistry, University of Delaware, Newark, Delaware, United States

10:57 AM-11:09 AM

CH-07. Modeling ultrafast spin-current-driven switching in ferromagnetic spin valves

P. Chailloleau[1], V. Raposo[4, 2], Q. Remy[3], C. Henri[1], J. Hohlfeld[1], M. Hehn[1, 5], E. Martinez Vecino[4, 2], H. Jaffrès[6], S. Mangin[1, 5]
[1]IJL, Université de Lorraine, CNRS, Nancy, France, [2]Unidad de Excelencia en Luz y Materia Estructuradas (LUMES), Universidad de Salamanca, Salamanca, Spain, [3]Department of Physics, Freie Universität Berlin, Berlin, Germany, [4]Dpto. Física Aplicada, Universidad de Salamanca, Salamanca, Spain, [5]Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan, [6]CNRS, Thales, Université Paris-Saclay, Laboratoire Albert Fert, Palaiseau, France

11:09 AM-11:21 AM

CH-08. Low-Fluence Photo-Induced Magnetization Dynamics in Co/Pd MLs with Perpendicular Anisotropy

V. Yadav[1], G. Lang[1], N. Smith[1, 2], Y. Pleimling[1], A. T. Hanbicki[2], A. Friedman[2], B. Magill[1], H. Munekata[3, 1], G. Khodaparast[1]
[1]Physics, Virginia Tech, Blacksburg, Virginia, United States, [2]Laboratory of Physical Sciences, College Park, Maryland, United States, [3]Institute of Science Tokyo, Tokyo, Japan

11:21 AM-11:57 AM

CH-09. Optical control of compact magnetic domains by annular pulsed laser beams in ferro- and ferrimagnetic thin films

J. Hohlfeld
Universite de Lorraine, CNRS, IJL, Nancy, France

SESSION CP: RARE-EARTH-FREE PERMANENT MAGNETIC MATERIALS (POSTER SESSION)

Chair(s): A. Hosokawa, *National Institute of Advanced Industrial Science and Technology, Nagoya, Aichi, Japan*
Wednesday, November 4, 2026
09:30 AM-12:30 PM
Coral 4

CP-01. Magnetic Hardening of Fe-Pt and Fe-Pt- M (M=B, Si) Microwires

V. Zhukova[1, 4, 5], M. Ipatov[3], A. Aronin[6], G. Abrosimova[6], A. Zhukov[1, 2, 5]
[1]Dept. Appl. Phys.,, University of the Basque Country, San Sebastian, Spain, [2]IKERBASQUE, Basque Foundation for Science, Bilbao, Spain, [3]Magnetic Measurement Service of Advanced Research Facilities (SGIker),, University of the Basque Country, EHU, San Sebastian, Spain, [4]Dept. Polym. Adv. Mater,, University. of the Basque Country, EHU, San Sebastian, Spain, [5]EHU Quantum Center, University of the Basque Country, EHU,, San Sebastian, Spain, [6]Institute of Solid State Physics, Russian Academy of Science,, Chernogolovka, Russian Federation

CP-03. Production of $Fe_{16}N_2$ bulk magnets

T. Saito[1], H. Yamamoto[2]
[1]Chiba Institute of Technology, Narashino, Japan, [2]Neoji-consul, Kyoto, Japan

CP-04. Perpendicular coercivity development in tetragonally distorted FeCoCr films

T. Hasegawa, T. Satou, T. Yamaguchi
Akita University, Akita, Japan

CP-05. Design and optimization of Rare-Earth-Free Co-Zr-Mo-Si-B Permanent Magnets

A. M. Cordero[1], A. Kovacs[2], H. Oezelt[2], D. Böhm[2], T. Schrefl[2], I. Betancourt[1]
[1]Autonomous University of Mexico, México City, Mexico, [2]University for Continuing Education Krems, Viena, Austria

CP-06. First-principles design of Fe_2Ge-based alloys as rare-earth-free permanent magnets

K. Baatartsogt[1], O. Dorj[2]
[1]Institute of Physics and Technology, Mongolian Academy of Sciences, Ulaanbaatar, Mongolia, [2]Incheon National University, Incheon, Korea (the Republic of)

CP-07. Perpendicular magnetic anisotropy in CoFe2Cu thin films

D. Alharbi[1, 2], F. Efe[1], F. Bakhshizadeh[1], M. Guy[1], A. Lisfi[1]
[1]Physics, Morgan State University, Baltimore, Maryland, United States, [2]The Catholic University of America, DC, District of Columbia, United States

CP-08. Efficient Preparation and Magnetic Characterization of τ -phase Mn-Al

K. N. Ndaru[1], T. F. McKenzie[1], R. Chapai[2], M. Khan[1]
[1]Department of Physics, Miami University, Oxford, Ohio, United States, [2]Department of Physics, Norfolk State University, Norfolk, Virginia, United States

CP-09. Phase Stabilities and Magnetic Properties of Fe-substituted Mn_3Ga with tetragonal structure

H. Okada[1], H. Fujita[1], S. Awaji[2]
[1]Tohoku Gakuin University, Sendai, Japan, [2]Tohoku University, Sendai, Japan

CP-10. Tuning Magnetic Anisotropy in Fe_3Sn Nanowire Arrays through Shape Effects and Annealing

A. A. Mendonça[1], V. M. Prida[2], F. Béron[1]
[1]Instituto de Física Gleb Wataghin, Universidade Estadual de Campinas, Campinas, São Paulo, Brazil, [2]Departamento de Física, Universidad de Oviedo, Oviedo, Spain

CP-11. Interface-driven exchange decoupling for coercivity enhancement in FeNi magnets

O. Tumentsereg, M. Adiya, B. Narangerel, O. Dorj
Department of Physics, Incheon National University, Incheon, Korea (the Republic of)

CP-12. Tailoring Magnetic Anisotropy in $(Fe_{0.7}Co_{0.3})_2B$ through Rhenium Substitution

T. Karki, H. Abbas, P. Joshi, J. Mohapatra, P. Liu
Physics, The University of Texas at Arlington, Arlington, Texas, United States

CP-13. Nanochain-Induced Magnetic Hardening in FeCo Alloys

H. Abbas, P. Joshi, T. Karki, J. Mohapatra, P. Liu
Department of Physics, University of Texas at Arlington, Arlington, Texas, United States

CP-14. Enhanced Hard Magnetic Properties of FeCo Alloys

B. Narangerel[1], O. Tumentsereg[1], M. Adiya[1], U. Amanjal[2], U. Enkhnaran[2], O. Dorj[1]
[1]Physics, Incheon National University, Yeonsu-Gu, Incheon, Korea (the Republic of), [2]Institute of Physics and Technology, Ulaanbaatar, Mongolia

CP-16. Giant-coercivity ε-Fe_2O_3 phase stabilization via lattice incorporation of Si impurities: Insights from a combined DFT and Mössbauer study

D. Kubániová[1, 2], J. Kohout[1], L. Kubickova[2, 1], T. Kmjec[1], V. Chlan[1], P. Brázda[2], M. Klementová[2], P. Bezdička[3]
[1]Faculty of Mathematics and Physics, Charles University, Prague, Czechia, [2]FZU – Institute of Physics of the Czech Academy of Sciences, Prague, Czechia, [3]Institute of Inorganic Chemistry of the Czech Academy of Sciences, Prague, Czechia

SESSION CQ: PERMANENT MAGNET MACHINES: DESIGN, MODELING AND OPTIMIZATION (POSTER SESSION)

Chair(s): A. Baghel, *Division of Critical Materials , Ames National Laboratory, Ames, Iowa, United States*

Wednesday, November 4, 2026

09:30 AM-12:30 PM

Coral 4

CQ-01. Design of an Asymmetric Six-Phase PCB Winding Motor for Small Drone Applications

C. Lee[1], H. Kim[1], Y. Lim[1], C. Kim[2], W. Kim[3]

[1]Department of Next Generation Smart Energy System Convergence, Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of), [2]Department of Electrical Engineering, Wonkwang University, Iksan-si, Jeonbuk-do, Korea (the Republic of), [3]Department of Electrical Engineering, Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of)

CQ-02. Nonlinear Magnetic Equivalent Circuit Based Design of Interior Permanent Magnet Synchronous Motors Considering Magnetic Saturation and Partial Demagnetization

S. Kim[2], K. Yu[2], H. Ban[2], J. Park[2], J. Choi[2], K. Shin[1]

[1]Changwon National University, Changwon, Korea (the Republic of), [2]Chungnam National University, Daejeon, Korea (the Republic of)

CQ-03. Prediction of Electromagnetic Performance in an Inverter-Coupled Interior Permanent Magnet Synchronous Motor Using an Artificial Neural Network

M. Kim[2], G. Shin[2], G. Lee[2], S. Kim[1], J. Choi[1], K. Shin[2]

[1]Chungnam National University, Daejeon, Korea (the Republic of), [2]Changwon National University, Changwon, Korea (the Republic of)

CQ-04. A study on industrial DC servo motors employing heavy rare-earth-free anisotropic bonded magnets

J. Lee[1], M. Park[1], Y. Noh[1], K. Lee[1], J. Lee[2]

[1]Korea Electronics Technology Institute, Bucheon, Korea (the Republic of), [2]Hanyang University, Seoul, Korea (the Republic of)

CQ-05. Design and Analysis of a Rare-Earth-Free Interior Permanent Magnet Synchronous Motor Using MnBi Magnets with a CFRP Sleeve

K. Kwak[1], S. Kim[1], M. Koo[2], H. Shin[3], J. Choi[1]

[1]Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [2]Purpose Built Mobility Group, Korea Institute of Industrial Technology, Gwangju, Korea (the Republic of), [3]Specialized Machinery and Robotics Group, Korea Institute of Industrial Technology, Gimje, Korea (the Republic of)

CQ-06. Demagnetization-Constrained Multi-Objective Design Optimization of PMa-SynRM Using Non-Rare-Earth Permanent Magnets

M. Kim[1], M. Seo[1], W. Lee[1], H. Lee[1], K. Yu[2], J. Choi[2], K. Shin[3]

[1]Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), [2]Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [3]AI Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

CQ-07. Analysis of Electromagnetic Characteristics of Surfaced-Mounted Permanent-Magnet Synchronous Machines Using a Physics-Informed Neural Network

S. Eom[1], J. Yang[1], T. Kim[1], K. Yu[1], K. Shin[2], J. Choi[1]

[1]Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [2]AI Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

CQ-08. Analysis of Magnetic Field Behavior and Core Losses in Permanent Magnet Synchronous Generators for Wave Energy Converter under Load Conditions

W. Jung[1], Y. Yoon[1], S. Kim[1], K. Shin[2], J. Choi[1]
[1]Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [2]Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

CQ-09. Design of a 3D-Printed Hybrid Axial–Radial Flux PM Motor with a Spoke-Type Rotor for Improved Power Density

H. Kim[1], S. Park[1], Y. Lim[1], C. Jin[2], W. Kim[3]
[1]Department of Next Generation Energy System Convergence, Gachon University, Seongnam-Si, Korea (the Republic of), [2]Department of Electrical Engineering, Wonkwang University, Iksan-Si, Korea (the Republic of), [3]Department of Electrical Engineering, Gachon University, Seongnam-Si, Korea (the Republic of)

CQ-10. Improved Rotor Shape Design of Spoke-type Ferrite Motors for Enhanced Magnetization Rate

S. Park[1], H. Kim[1], J. Moon[1], C. Lee[1], W. Kim[2]
[1]Department of Next Generation Energy System Convergence, Gachon University, Seongnam-Si, Gyeonggi-Do, Korea (the Republic of), [2]Department of Electrical Engineering, Gachon University, Seongnam-Si, Gyeonggi-Do, Korea (the Republic of)

CQ-11. Multi Objective Optimization of an Inverter Fed IPMSM Based on Magnetic Field Behavior and Core Loss Prediction

K. Yu[1], T. Kim[1], S. Eom[1], H. Ban[1], S. Kim[1], J. Park[1], K. Shin[2], J. Choi[1]
[1]Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [2]Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

CQ-12. Spin Test Validation of a Speed-Dependent Rotordynamic Model for a Superconducting Spoked Rotor

J. Xiao, S. Sirimanna, T. Balachandran, K. S. Haran
Hinetics Inc., Champaign, Illinois, United States

CQ-13. Improved Quasi-3D Magnetic Equivalent Circuit Model Considering Radial Leakage and Edge Effects for Axial flux Permanent Magnet Machines

S. Kim[1], M. Kim[1], S. Woo[1], J. Park[2], J. Choi[3], K. Shin[4]
[1]Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), [2]Chungnam National University, Daejeon, Korea (the Republic of), [3]Chungnam National University, Daejeon, Korea (the Republic of), [4]Changwon National University, Changwon, Korea (the Republic of)

CQ-14. Analysis of Electromagnetic Force and NVH Characteristics in Axial Flux Permanent Magnet Motors With Segmented Stator Structures

J. Yang[1], W. Jung[1], K. Shin[2], J. Choi[1]
[1]Department of Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [2]Department of AI Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

CQ-15. Harmonic Cancellation-Based Mitigation of Permanent-Magnet Eddy-Current Loss in Dual Three-Phase Motors Considering Pole–Slot Combinations

D. Kim, S. Oh, D. Ji, S. Song, H. Lee
Dankook University, Yongin-si, Korea (the Republic of)

CQ-16. Analysis of Electromagnetic Force Distribution and NVH Characteristics in Permanent Magnet Synchronous Machines Under Sinusoidal and Commutation Ripple Current Waveforms

Y. Yoon[1], W. Jung[1], H. Yu[1], C. W. Choi[1], S. Yoon[1], K. Shin[2], J. Choi[1]
[1]Electrical Engineering, Chungnam National University, Dajeon, Dajeon, Korea (the Republic of), [2]AI Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

SESSION CR: UNCONVENTIONAL COMPUTING AND MAGNETIC MEMORIES I (POSTER SESSION)
Chair(s): P. Wang, *University of Manchester, Manchester, United Kingdom*
Wednesday, November 4, 2026
09:30 AM-12:30 PM
Coral 4

CR-02. Logic Obfuscation in Ising Networks via key-modulated Energy Landscape
D. Divyanshu[1], S. Amara[1], H. Bagci[1], G. Setti[2]
[1]CEMSE, King Abdullah University of Science and Technology, Thuwal, Makkah, Saudi Arabia, [2]Department of Electronics and Telecommunications,, Politecnico di Torino, Turin, Italy

CR-03. Robust Power-Law Computing for Edge Intelligence using Spin-Orbit Torque Magnetic Tunnel Junctions
S. Xiong[1], C. Wan[1, 2], X. Han[1, 3, 2]
[1]Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, University of Chinese Academy of Sciences, Chinese Academy of Sciences, Beijing, Beijing, China, [2]Songshan Lake Materials Laboratory, Dongguan, Guangdong, China, [3]Center of Materials Science and Optoelectronics Engineering, University of Chinese Academy of Sciences, Beijing, Beijing, China

CR-04. Large spin Hall effect and high thermal tolerance in amorphous Tungsten based spin Hall materials for SOT-MRAM application
Y. Hibino, T. Yamamoto, T. Taniguchi, H. Kubota, K. Yakushiji, S. Yuasa
Research Institute for Hybrid Functional Integration, National Institute of Advanced Industrial Science and Technology, Tsukuba, Ibaraki, Japan

CR-05. Scalable In-Memory Computing with *N*-ary Spintronic Crossbar Arrays
A. Moureaux, A. Lopes Temporao, F. Abreu Araujo
IMCN / BSMA, UCLouvain, Louvain-la-Neuve, Brabant Wallon, Belgium

CR-06. Hardware-Efficient Multibit Edge Detection Using Spintronic Power-of-2 Thresholding and Majority Voting
P. Bandgar, K. Singh, D. Das
Department of Electrical & Electronics Engineering, BITS Pilani K K Birla Goa Campus, VASCO DA GAMA, GOA, India

CR-07. MEMS-tunable Radio Frequency Spin Diodes for Neuromorphic Computing Applications
M. Cocconcelli[1, 2], A. Angotti[2], A. Begue[1], Y. Wei[1], F. Maspero[2], R. Bertacco[2], D. Sanz Hernandez[1], J. Grollier[1]
[1]Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France, [2]Department of Physics, Politecnico di Milano, Milan, Italy

CR-08. Spin-regulated Synaptic Plasticity in Memristors Based on HfO_x-Co Granular Films
H. Zhu[1], Z. Yang[1], J. Zhu[1], S. Zheng[1], Z. Yang[1], Y. Ma[1], S. Zhang[1, 2], M. Gong[1], T. YU[1]
[1]College of Physics, Sichuan University, Chengdu, Sichuan, China, [2]College of Mechanical Engineering, Guizhou University of Engineering Science, Bijie, Guizhou, China

CR-09. Quantitative analysis of the relationship between physical dynamics and computational capacities in spin-wave-based reservoir computing
R. Nakane[1, 2], Y. Miyasaka[1]
[1]Department of Electrical Engineering and Information Systems, The University of Tokyo, Tokyo, Japan, [2]Systems Design Lab, The University of Tokyo, Tokyo, Japan

CR-10. Chirality-controlled dipolar coupling states in spin-torque vortex oscillator arrays
S. de Wergifosse[1], F. Abreu Araujo[1], J. Gartside[2, 3], T. da Câmara Santa Clara Gomes[4, 1]
[1]Institute of Condensed Matter and Nanosciences, Université catholique de Louvain, Louvain-la-Neuve, Belgium, [2]Blackett Laboratory, Imperial College London, London, United Kingdom, [3]London Centre for Nanotechnology, Imperial College London, London, United Kingdom, [4]Microsistemas e Nanotecnologias (INESC MN), Instituto de Engenharia de Sistemas E Computadores, Lisbon, Portugal

CR-11. Reconfigurable Spintronic Diodes for Neuromorphic Computing
A. Begue[1], H. Singh[2], Y. Wei[1], L. Herrera Diez[3], A. Durnez[3], B. Dlubak[1], J. Grollier[1], D. Sanz Hernandez[1]
[1]Laboratoire Albert Fert, CNRS-Thales, Univ. Paris Saclay, Palaiseau, France, [2]VTT Technical Research Center of Finland, Helsinki, Finland, [3]Centre de Nanosciences et de Nanotechnologies, Palaiseau, France

CR-12. Simultaneous Improvement of Thermal Stability and Critical Current Density in Gradient-Pt/Co Heterostructures by Post-Growth Annealing.
V. Yadav, R. S. Yadav, N. Kandwal, A. S. Chauhan, A. Saxena, P. K. Muduli
Physics, IIT Delhi, Delhi, India

CR-13. Tuning of properties in Bottom-Pinned Perpendicular Magnetic Tunnel Junctions
M. Syskaki, M. Minhas, J. Wrona, J. Langer, B. Ocker
Singulus Technologies AG, Kahl am Main, Bayern, Germany

CR-14. Nonlinear Encoding Using Exchange-Coupled Spintronic Devices for Edge Intelligence
J. R. Mohan[1, 2], S. Uchiyama[1], R. Feng[1], L. Guofei[1], R. Hamada[1], Y. Ono[1], H. Asada[3], Y. Fukuma[1, 2]
[1]Department of Physics and Information Technology, Faculty of Computer Science and Systems Engineering, Kyushu Institute of Technology, Iizuka, Fukuoka, Japan, [2]Research Center for Neuromorphic AI hardware, Kyushu Institute of Technology, Kitakyushu, Fukuoka, Japan, [3]Graduate School of Sciences and Technology for Innovation, Yamaguchi University, Ube, Japan

CR-15. 1.58-bit Reservoir Computing Using Paired Magnetic Tunnel Junctions in a Clustered CIM Architecture
S. Adachi[1], R. Kusunose[1], O. A. Velasco Cardenas[1], A. Schmid[2], K. Ando[1], T. Asai[1], T. Marukame[1]
[1]Hokkaido University, Sapporo, Hokkaido, Japan, [2]EPFL, Lausanne, Switzerland

CR-16. Probability Processing Unit Based on Nonvolatile Magnetic Tunnel Junctions
D. Kong, C. Wan, X. Li, Y. Xu, S. Xiong, G. Yu, X. Han
Institute of Physics, Chinese Academy of Sciences, Beijing, China

SESSION CS: MAGNETIC STRUCTURES AND NANOCOMPOSITES (POSTER SESSION)
Chair(s): S. Koraltan, *Zentrum für Quantum Engineering, Technische Universität München, Wien, Austria*
Wednesday, November 4, 2026
09:30 AM-12:30 PM
Coral 4

CS-01. Magnetisation Dynamics of Lithography-Compatible Self-Aligned Nanowires on Antidot Array
N. Suggula, V. Ng
Information Storage and Materials Laboratory, Electrical and Computer Engineering, National University of Singapore, Singapore, Singapore

CS-02. Evaluation of magnetic properties of three-dimensional land-groove structure by ferromagnetic resonance
H. Imaeda, T. Takeuchi, H. Awano, K. Tanabe
Toyota Technological Institute, Nagoya, Japan

CS-03. Microstructure and chemical ordering in Co@FePt nanocomposite magnetic films

D. Le Roy[1], C. Paleo[1], C. Ricolleau[2], O. Boisron[1], V. Dupuis[1]
[1]Universite Lyon 1, CNRS, Institut Lumière Matière, UMR5306, Villeurbanne, France, [2]Université Paris Cité, CNRS, Laboratoire Matériaux et Phénomènes Quantiques, Paris, France

CS-04. Induced Magnetism in Polymer Matrix and Enhanced Ferromagnetism in Ferrocene-Derived Systems via Nanodiamond-Assisted Co-Pyrolysis

E. Gutierrez, F. Gonzalez, A. Garcia, A. Prakash, A. Khodagulyan, O. Bernal, A. N. Kocharian
Physics and Astronomy, California State University,, Los Angeles, California, United States

CS-05. Flow Induced Magnetic Anisotropy of FDM Printed Strontiumferrite/PA12 Composites

A. K. Mandal[1], M. Islam[2], L. Rodriguez[2], M. Rashid[1], J. Tate[3, 2], D. E. Smith[4], W. Geerts[1, 2]
[1]Physics, Texas State University, San Marcos, Texas, United States, [2]MSEC, Texas State University, San Marcos, Texas, United States, [3]Ingram School of Engineering, Texas State University, San Marcos, Texas, United States, [4]Department of Mechanical Engineering, Baylor University, Waco, Texas, United States

CS-06. 4D-printed Sacrificial Fe_2N–Alginate Microfibers for Perfusable Hydrogel Microchannels

Z. Rajestari[1], N. Tarabay[2], L. Paulsen[1], L. Kulinsky[1], C. Velez[1, 2]
[1]Department of Mechanical and Aerospace Engineering, University of California, Irvine, Irvine, California, United States, [2]Department of Electrical Engineering and Computer Science, University of California, Irvine, Irvine, California, United States

CS-07. In-Situ Alignment of Magnetic Particles for Printing of Anisotropic Hard Magnetic Soft Composites Using a Modified SLA-Based 3D Printer

M. Islam[1], L. Rodriguez[1], B. Banjara[2], J. Tate[2, 1], W. Geerts[3, 1]
[1]MSEC, Texas State University, San Marcos, Texas, United States, [2]Ingram School of Engineering, Texas State University, San Marcos, Texas, United States, [3]Physics, Texas State University, San Marcos, Texas, United States

CS-09. A New Route to Fabricating of Spinel-Ferrite-Based Magnetic Nanocomposites via Eutectoid Decomposition: Application to Cobalt-Ferrite/Fe-Co System

S. Yamamuro, Y. Osumi, S. Koike
Graduate School of Science and Engineering, Ehime University, Matsuyama, Japan

CS-10. Co-Ni Ferrite Nanoparticles as Tracers for Magnetic Particle Imaging – From Magnetic Anisotropy to Magnetic Particle Spectra and Imaging

L. Kubickova[1, 2], T. Voltrova[1, 2], J. Kulickova[1], P. Veverka[1], K. Ahn[1], D. Kubaniova[2, 1], J. Kohout[2], O. Kaman[1]
[1]FZU - Institute of Physics of the Czech Academy of Sciences, Praha, Czechia, [2]Faculty of Mathematics and Physics, Charles University, Praha, Czechia

CS-11. Theoretical Investigation of Magnetic Nanoparticles (MNPs) Based Additively Manufactured Biosensors

R. Mendonsa[1], S. Liang[2], J. Wang[1, 2]
[1]Electrical and Computer Engineering, University of Minnesota, Minneapolis, Minnesota, United States, [2]Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, Minnesota, United States

CS-12LB. Elimination of Nanoparticle Interaction Effects in Magnetic Susceptibility Measurements

R. Goldfarb
National Institute of Standards and Technology, Boulder, Colorado, United States

CS-13LB. Enhancing THz light-spin coupling with metasurfaces

L. v. Gerven, V. Bilyk, A. V. Kimel
USCM, Radboud University, Nijmegen, Netherlands

CS-14LB. Characterizing Magnetic Nanoparticles using Magnetic Force Microscopy
D. Docusen[1], R. Gautam[2], K. Chesnel[2]
[1]Eastern Michigan University, Ypsilanti, Michigan, United States, [2]Brigham Young University, Provo, Utah, United States

YA: SPECIAL SESSION: NARRATIVE IS LEADERSHIP: COMMUNICATING SCIENCE POWERFULLY WITH THE ABT FRAMEWORK
Chair(s): C. Dennis, *National Institute of Standards and Technology, Gaithersburg, Maryland, United States*
Wednesday, November 4, 2026
12:30 PM-01:30 PM
Lehua Suite
Supported by

SESSION DA: RE-IMAGINING SPINTRONIC LOGIC
Co-Chair(s): S. Rao, *Interuniversitair Micro-Elektronica Centrum, Leuven, Belgium* and J. C. Incorvia, *Electrical and Computer Engineering, The University of Texas at Austin, Austin, Texas, United States*
Wednesday, November 4, 2026
02:00 PM-05:30 PM
Coral 3

02:00 PM-02:36 PM
DA-01. MRAM-Based Compute-in-Memory Beyond MVMs: From Accelerating Transcendental Functions to Stochastic Computing
M. Mukherjee, A. Holla, K. Roy
Purdue University, West Lafayette, Indiana, United States

02:36 PM-03:12 PM
DA-02. Spin-Orbit-Torque Devices for Database search and Hyperdimensional Computing
A. Naeemi
Georgia Institute of Technology, Atlanta, Georgia, United States

03:12 PM-03:24 PM
DA-03. Voltage-controlled ferroelectric spin−orbit devices for beyond-CMOS logic and in-memory computing
G. Gandini, M. Cantoni, C. Rinaldi
Physics, Politecnico di Milano, Milano, Italy

03:24 PM-03:36 PM
DA-04. SuperMag: Superconducting Magnetic Logic
A. Edwards[1, 2], S. Le[1], N. Smith[1], E. C. Usih[3], A. Thomas[1], C. Richardson[1], N. Blumenschein[1], A. T. Hanbicki[1], A. Friedman[1], J. S. Friedman[3]
[1]Laboratory for Physical Sciences, College Park, Maryland, United States, [2]Electrical and Computer Engineering, University of Maryland, College Park, Maryland, United States, [3]Electrical and Computer Engineering, The University of Texas at Dallas, Richardson, Texas, United States

03:36 PM-03:48 PM
DA-05. Observation of the Magnon Hall Magnetoresistance
S. Mai[1, 2], P. Wu[3, 1], C. Chen[1], S. Huang[1, 4], X. Fan[5], D. Qu[2, 4]
[1]Department of Physics, National Taiwan University, Taipei, Taiwan, [2]Center for Condensed Matter Sciences, National Taiwan University, Taipei, Taiwan, [3]Delta Electronics, Taipei, Taiwan, [4]Center of Atomic Initiatives for New Materials, National Taiwan University, Taipei, Taiwan, [5]Department of Physics and Astronomy, University of Denver, Denver, Colorado, United States

03:48 PM-04:15 PM
Break

04:15 PM-04:51 PM
DA-06. Emerging spintronics-based compute-in-memory systems for low-power edge AI
T. P. Xiao[1], C. H. Bennett[1], S. Liu[2, 3], N. Zogbi[3], I. Velazquez[3], H. Jin[3], Z. A. Landers[3], R. Patel[1], D. Hughart[1], S. Agarwal[1]
[1]Sandia National Laboratories, Albuquerque, New Mexico, United States, [2]National Institute of Standards and Technology, Boulder, Colorado, United States, [3]Electrical and Computer Engineering, University of Texas at Austin, Austin, Texas, United States

04:51 PM-05:27 PM
DA-07. Magnetic Transistors with Strong Magnetoelectric Coupling and Spin−Orbit−Coupling Induced Nonreciprocity
C. Chou[1], E. Park[1], J. Ingla-Aynes[1], J. Klein[1], K. Mosina[2], Y. Onishi[1], Q. Wang[1], J. S. Moodera[1], Z. Sofer[2], F. Ross[1], M. Li[1], L. Fu[1], L. Liu[1]
[1]MIT, Cambridge, Massachusetts, United States, [2]University of Chemistry and Technology Prague, Prague, Czechia

SESSION DB: ALTERMAGNETISM: SUPERCONDUCTIVITY AND P-WAVE MAGNETS
Co-Chair(s): H. Reichlova, *Institute of Physics, CAS, Dresden, Germany* and M. Hirschberger, *Applied Physics, The University of Tokyo, Tokyo, Japan*
Wednesday, November 4, 2026
02:00 PM-05:30 PM
Coral 5

02:00 PM-02:36 PM
DB-01. 3D Chiral Spintronics: Spin-Selective Transport through Chiral Magnetic Nanohelices
Y. Jeon[1], E. Jeong[1], K. Nam[2], Y. Kim[1]
[1]Korea University, Seoul, Seoul, Korea (the Republic of), [2]Seoul National University, Seoul, Seoul, Korea (the Republic of)

02:36 PM-03:12 PM
DB-02. Metallic *p*-wave magnets with commensurate spin helix
M. Hirschberger[1, 2], R. Yamada[1], M. Birch[2], P. Baral[1, 2], S. Okumura[5, 1, 2], M. Ezawa[1], J. Masell[3], T. Nomoto[4], M. M. Hirschmann[2]
[1]Applied Physics, The University of Tokyo, Bunkyo, Tokyo, Japan, [2]Center for Emergent Matter Science, RIKEN, Wako, Saitama, Japan, [3]Karlsruhe Institute of Technology, Karlsruhe, Germany, [4]Physics, Tokyo Metropolitan University, Hachioji, Tokyo, Japan, [5]Quantum-Phase Electronics Center, The University of Tokyo, Bunkyo, Tokyo, Japan

03:12 PM-03:24 PM
DB-03. Josephson Diode Effect in Altermagnet and p-wave Magnet Based Junctions
L. Sharma[1], B. Ghimire[2], M. Thakurathi[2]
[1]Physics, Indian Institute of Technology, Delhi, New Delhi, Delhi, India, [2]Physics, Indian Institute of Technology, Hyderabad, Hyderabad, Telengana, India

03:24 PM-03:36 PM
DB-04. Symmetry-Enforced Nodal f-Wave Magnets
M. M. Hirschmann[1], A. Furusaki[1], M. Hirschberger[2]
[1]Center for Emergent Matter Science, RIKEN, Wako, Japan, [2]Department of Applied Physics, The University of Tokyo, Bunkyo, Japan

03:36 PM-03:48 PM
DB-05. Magnetic ground state and k-dependent spin splitting in the surface of RuO_2 thin films
T. Kuschel
Johannes Gutenberg University Mainz, Mainz, Germany

03:48 PM-04:15 PM
Break

04:15 PM-04:51 PM
DB-06. Topology and persistent spin currents in superconducting altermagnets
M. Franz
University of British Columbia, Vancouver, British Columbia, Canada

04:51 PM-05:03 PM
DB-07. Altermagnetic Thin Films and Their Interplay with Superconductivity
D. Kriegner
Institute of Physics of the Czech Academy of Sciences, Prague, Czechia

05:03 PM-05:15 PM
DB-08. Hidden magnetic complexity in a model altermagnet: A neutron and muon study of correlated *d*-wave altermagnet $La_2O_3Mn_2Se_2$
S. Hatt, E. Carlisle, B. Frandsen
Physics and Astronomy, Brigham Young University, Provo, Utah, United States

05:15 PM-05:27 PM
DB-09. Time-reversal-symmetry-breaking spin injection from an altermagnet
J. Mencos[1], A. Badura[2], E. Dolan[1], S. Beckert[3], I. Kounta[4], W. Campos[5], J. Rial[6], D. Kriegner[2], V. Baltz[6], L. Hueso[1], J. Sinova[5], O. Gomonay[5], T. Jungwirth[2], L. Smejkal[7], L. Michez[4], H. Reichlova[2], F. Casanova[1]
[1]nanogune, San Sebastian, Spain, [2]FZU, Prague, Czechia, [3]TU Dresden, Dresden, Germany, [4]CINaM-CNRS, Marseille, France, [5]JGU, Mainz, Germany, [6]SPINTEC, Grenoble, France, [7]PKS MPG, Dresden, Germany

SESSION DC: MULTIFERROIC MATERIALS AND MAGNETO-IONICS

Co-Chair(s): S. Dong, *Physics, Southeast University, Nanjing, Jiangsu, China* and Y. Takamura, *Materials Science and Engineering, University of California, Davis, Davis, California, United States* and B. Prasad, *Materials Engineering , Indian Institute of Science Bengaluru, Bengaluru , KA, India*

Wednesday, November 4, 2026

02:00 PM-05:30 PM

Coral 1

02:00 PM-02:36 PM

DC-01. Strain and Defect-Tailored Magnetotransport in $NiCo_2O_4$ Thin Films and Free-Standing Membranes

X. Hong

University of Nebraska-Lincoln, Lincoln, Nebraska, United States

02:36 PM-02:48 PM

DC-02. Magnetoelectric Coupling in Freestanding Multiferroic $SrMnO_3$ Membranes

A. Gupta, M. Ahmadi, T. Banerjee

Zernike Institute for Advanced Materials, University of Groningen, Groningen, Netherlands

02:48 PM-03:00 PM

DC-03. Interplay of Localized Shear Strain and Non-Collinear Easy Axes in Voltage Driven Magnetic Multilayers

S. Lindemann[1], J. E. Shoup[2], T. Hanashima[3], A. J. Grutter[1], P. P. Balakrishnan[1], E. Jeong[1], A. Friedland[1], E. Welp[1], A. Caruana[4], C. Kinane[4], T. Charlton[5], D. B. Gopman[2], P. Gehring[1], J. Borchers[1]

[1]NCNR, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, [2]MSE, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, [3]Neutron Science and Technology Center, CROSS, Tokai, Ibaraki, Japan, [4]ISIS Neutron and Muon Source, STFC Rutherford Appleton Laboratory, Didcot, United Kingdom, [5]Neutron Sciences Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States

03:00 PM-03:12 PM

DC-04. All-electrical strain-driven control of magnetization in FeGa microstructures on PMN-PT

G. Pradhan[1], F. Celegato[1], A. Magni[1], G. Barrera[1], M. Coisson[1], P. Rizzi[2], P. Tiberto[1]

[1]Advance Materials and Life sciences, INRIM, Torino, Italy, [2]Department of Chemistry, Università di Torino, Torino, Italy

03:12 PM-03:24 PM

DC-05. Tuning magnetoelectric effect controlled by magnetic anisotropy in ferromagnetic-piezoelectric heterostructure

P. Finkel, P. Mion, M. Staruch

US Naval Research Laboratory, Washington DC, District of Columbia, United States

03:24 PM-03:36 PM

DC-06. High-Temperature Anomalous Hall and Magnetoresistance Effects Induced by Spin Fluctuations in the Metallic Delafossite Triangular-Lattice Antiferromagnet $PdCrO_2$

Y. Tao[1], P. Jain[1], Y. Zhang[1], F. Tutt[1], A. Paul[1], D. Phelan[2], C. Balz[3], S. Hatt[4], J. Neuefeind[3], S. Rosenkranz[2], B. Frandsen[4], T. Birol[1], C. Leighton[1]

[1]Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, Minnesota, United States, [2]Materials Science Division, Argonne National Laboratory, Lemont, Illinois, United States, [3]Neutron Scattering Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, [4]Physics and Astronomy, Brigham Young University, Provo, Utah, United States

03:36 PM-03:48 PM

DC-07. Unusual metamagnetism studied with ^{57}Fe Mössbauer spectroscopy in $BaRFeO_4$ multiferroics

L. Kubickova[1, 2], T. Kmjec[1], M. Rozprym[1], M. Veverka[1], D. Kubániová[1, 2], V. Chlan[1], C. Kadlec[2], F. Kadlec[2], J. Kohout[1]
[1]Faculty of Mathematics and Physics, Charles University, Prague, Czechia, [2]FZU – Institute of Physics of the Czech Academy of Sciences, Prague, Czechia

03:48 PM-04:15 PM
Break

04:15 PM-04:51 PM

DC-08. All-Nitride Magneto-Ionics: From Phase Reconfiguration to Anomalous Hall Transport

Z. Chen[1], C. Jensen[1, 2], Z. Zeng[1], C. Liu[3], Y. Liu[1], N. Naushin[4], G. Leigh[1], C. Kinane[5], A. Caruana[5], J. Herz[1, 6], A. Liu[1], G. Yin[1], Y. Ijiri[7], R. Kukreja[4], A. J. Grutter[2], J. Borchers[2], X. Zhang[3], K. Liu[1]
[1]Physics Department, Georgetown University, Washington, District of Columbia, United States, [2]NIST Center for Neutron Research, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, [3]King Abdullah University of Science & Technology, Thuwal, Saudi Arabia, [4]Department of Materials Science and Engineering, University of California, Davis, Davis, California, United States, [5]STFC Rutherford Appleton Laboratory, ISIS Neutron Facility, Didcot, United Kingdom, [6]Department of Physics, College of William & Mary, Williamsburg, Virginia, United States, [7]Department of Physics and Astronomy, Oberlin College, Oberlin, Ohio, United States

04:51 PM-05:03 PM

DC-10. Interlayer Kondo Effect and Spin Glass Freezing in the Ultraconductive Metallic Delafossite $PdCo_{1-x}Cr_xO_2$

P. Jain[1], F. Tutt[1], Y. Zhang[1], Y. Tao[1], S. Sharma[2], I. Khayr[2], M. Greven[2], C. Leighton[1]
[1]Chemical Engineering and Materials Science, University of Minnesota Twin Cities, Minneapolis, Minnesota, United States, [2]School of Physics and Astronomy, University of Minnesota Twin Cities, Minneapolis, Minnesota, United States

05:03 PM-05:15 PM

DC-11. Deterministic Control of Nanomagnetic Spiral Trajectories using an Electric Field

S. Moody[1], M. Littlehales[2], D. Mayoh[3], D. Alba Venero[4], G. Balakrishnan[3], P. Hatton[5], J. S. White[1]
[1]Laboratory for Neutron Scattering, Paul Scherrer Institute, Villigen, Aargau, Switzerland, [2]Physik-Department, Technische Universität München, Garching, Bavaria, Germany, [3]Physics Department, University of Warwick, Coventry, England, United Kingdom, [4]ISIS Neutron and Muon Source, Didcot, United Kingdom, [5]Physics Department, Durham University, Durham, England, United Kingdom

SESSION DD: SOFT MAGNETIC MATERIALS I

Co-Chair(s): S. Okamoto, *Tohoku University, Sendai, Miyagi, Japan* and J. Jeong, *New-Functionality Powder Materials Research Center, Korea Institute of Materials Science, Changwon, Korea (the Republic of)*

Wednesday, November 4, 2026
02:00 PM-05:30 PM
Coral 2

02:00 PM-02:36 PM

DD-01. Reduction of high-frequency core loss in nanocrystalline soft magnetic materials by grain boundary engineering

K. Suzuki[1, 2]
[1]Department of Materials Science and Engineering, Monash University, Clayton, Victoria, Australia, [2]Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai, Miyagi, Japan

02:36 PM-02:48 PM

DD-02. Powder-sintered Fe-Co-X soft magnetic alloys for high-torque-density motor cores in robotic applications

Y. Cho, K. Jang, J. Jeong
Korea Institute of Materials Science, Changwon, Korea (the Republic of)

02:48 PM-03:00 PM
DD-03. Tailoring Permalloy's Complex Permeability Response Through Laser Powder Bed Fusion
N. Ayers[2], H. Baldino[2], D. Hedlund[1], P. Kulik[2, 1], Y. Sohn[2]
[1]Department of Electrical and Computer Engineering, University of Central Florida, Orlando, Florida, United States, [2]Department of Materials Science and Engineering, University of Central Florida, Orlando, Florida, United States

03:00 PM-03:12 PM
DD-04. Investigation of the resonance behavior in irreversible permeability spectrum of Fe-based nanocrystalline alloys
Y. Tomita
Corporate R&D Center, Daido Steel Co., Ltd., Nagoya, Aichi, Japan

03:12 PM-03:24 PM
DD-05. Micromagnetic modelling of quasi-static domain wall pinning and eddy current losses in magnetically soft high frequency metal-ferrite nanocomposites
S. Mullurkara[1], Z. Wang[1], P. Ohodnicki[1], T. Schrefl[2]
[1]University of Pittsburgh, Pittsburgh, Pennsylvania, United States, [2]University for Continuing Education Krems Center for Modelling and Simulation, Neustadt, Viktor Kaplan Straße 2 - Bauteil E, Austria

03:24 PM-03:36 PM
DD-06. Microstructure and Permeability of Fe-deficient Ni-Cu-Zn Ferrites
C. Priese, J. Töpfer
Ernst-Abbe-Hochschule Jena, Jena, Germany

03:36 PM-03:48 PM
DD-07. High Permittivity Garnet Ferrite for LTCC Circulators
M. Legay[1], R. Lebourgeois[3], R. Mansour[3], D. Caban-Chastas[1], Q. Todoli[1], V. Laur[2]
[1]Thales DMS, Elancourt, France, [2]LAB-STICC, Brest, France, [3]Thales Research and Technology, Palaiseau, France

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM
DD-08. High-frequency iron loss and magnetization dynamics of amorphous and nanocrystalline ribbons with various magnetostriction
N. Ono[1], T. Ogasawara[2], S. Hiramoto[1], H. Tsukahara[1], T. Taniguchi[1], K. Suzuki[3], S. Okamoto[1, 4]
[1]Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai, Miyagi, Japan, [2]National Institute of Advanced Industrial Science and Technology, Tsukuba, Ibaraki, Japan, [3]Department of Materials Science and Engineering, Monash University, Clayton, Victoria, Australia, [4]National Institute for Materials Science, Tsukuba, Japan

04:27 PM-04:39 PM
DD-09. Modeling of stress due to crystallization to clarify origin of fin magnetic domain structure in soft magnetic materials
H. Tsukahara[1, 2], N. Ono[1], K. Suzuki[3], A. Kato[4], K. Ono[2], T. Taniguchi[1], S. Okamoto[1, 4]
[1]Tohoku University, Sendai, Japan, [2]Osaka University, Oska, Japan, [3]Monash University, Melbourne, Victoria, Australia, [4]NIMS, Tsukuba, Japan

04:39 PM-04:51 PM

DD-10. Effect of Hot Rolling Condition on Texture Evolution and Magnetic Properties in 3.4 wt% Si Non-Oriented Electrical Steel

D. Kim
POSCO, Pohang, Korea (the Republic of)

04:51 PM-05:03 PM

DD-11. Advances in Minnealloy Fabrication, Characterization, and Modeling

A. S. Padgett[1], S. R. Bishop[1], C. R. Riley[1], J. D. Boissiere[1], A. R. Marotta[1], D. Bosomtwi[1], S. Percival[1], P. F. Weck[1], E. Gokce-Polat[2], J. Wang[2], W. Echtenkamp[2]
[1]Sandia National Laboratories, Albuquerque, New Mexico, United States, [2]University of Minnesota, Minneapolis, Minnesota, United States

05:03 PM-05:15 PM

DD-12. Electronic Origin of Enhanced Saturation Magnetic Flux Density in Nitrogen-Deficient $(Fe_{1-y}Co_y)_{16}N_x$

Y. Asari[1], T. Tabata[1], S. Terada[1], M. Enoki[2], T. Ogawa[3]
[1]Hitachi, Hitachi, Ibaraki, Japan, [2]Shimane University, Matsue, Shimane, Japan, [3]Tohoku University, Sendai, Miyagi, Japan

05:15 PM-05:27 PM

DD-13. Development of Co-Fe-Si-B microwires doped by Ni and Mo with rectangular hysteresis loops and high GMI effect

M. Salaheldeen[1, 2], V. Zhukova[1, 3, 4], P. A. Rodríguez Jiménez[1, 3], A. Zhukov[3, 4, 5]
[1]Department of Polymers and Advanced Materials,, University of the Basque Country, EHU,, San Sebastian, Spain, [2]Physics Department, Faculty of Science,, Sohag University, Sohag, Egypt, [3]Department of Applied Physics , EIG,, University of the Basque Country, EHU, San Sebastian, Spain, [4]EHU Quantum Center, University of the Basque Country, EHU, San Sebastian, Spain, [5]IKERBASQUE, Basque Foundation for Science, Bilbao, Spain

SESSION DE: MAGNETIC SENSORS, ENERGY HARVESTERS AND POWER DEVICES

Chair(s): A. Bellini, *DEI, Alma Mater Studiorum, University of Bologna, Cesena, Italy*
Wednesday, November 4, 2026
02:00 PM-05:30 PM
South Pacific 1/2

02:00 PM-02:36 PM

DE-01. Highly Sensitive Tunnel Magnetoresistance Sensors: Recent Progress and Signal Processing Based on Deep Neural Network

T. Kubota[1], T. Hojo[1, 2], Y. Ando[1, 2, 3]
[1]Advanced Spintronics Medical Engineering, Tohoku University, Sendai, Miyagi, Japan, [2]Department of Applied Physics, Tohoku University, Sendai, Japan, [3]Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan

02:36 PM-02:48 PM

DE-02. Micro-patterned $Fe_{65}Co_{35}$ Thin Film for High Frequency Low Loss Integrated RF Inductors

H. Yin, A. El-Ghazaly
Department of Electrical and Computer Engineering, Cornell University, Ithaca, New York, United States

02:48 PM-03:00 PM

DE-03. Enhancement of anomalous Hall and Nernst effects in tetragonal distorted FeCo induced by the addition of V and N elements

A. Patel[1], E. Xiao[1], C. Murakami[2], T. Nakatani[1], T. Hasegawa[2], T. Tadano[1], Y. Sakuraba[1]
[1]Research Center for Magnetic and Spintronic Materials, National Institute for Materials Science, Tsukuba, Ibaraki, Japan, [2]Department of Materials Science, Akita University, Akita, Japan

03:00 PM-03:12 PM
DE-04. Ultra-sensitive magnetic field sensor for low frequency applications
L. Malucelli[1], A. Arredondo-López[1], M. Caseiro[2], E. Yildiz[1], I. Joumard[1], N. Mollard[1], S. Auffret[1], J. Faure-Vincent[1], G. Gaudin[1], B. Dieny[1], C. Baraduc[1], L. Ranno[3], J. Kammerer[4], C. Fermon[2], A. Solignac[2], M. Pannetier-Lecoeur[2], H. Béa[1, 5], J. Fischer[1]
[1]University of Grenoble Alpes, CNRS, CEA, SPINTEC, Grenoble, France, [2]Université Paris-Saclay, CEA, CNRS, SPEC, Gif-sur-Yvette, France, [3]Institut Néel, Univ. Grenoble Alpes, CNRS, Grenoble, France, [4]ICube, University of Strasbourg, Strasbourg, France, [5]Institut Universitaire de France (IUF), Grenoble, France

03:12 PM-03:24 PM
DE-05. Demonstration of a Bistable Broadband Electromagnetic Vibration Energy Harvester for Low-Frequency Applications
H. Kijima-Aoki[1], K. Nohara[1], K. Kobori[2], H. Katsumura[3], M. Lallart[4, 5], G. Sebald[4, 5], H. Masumoto[6], S. Yabukami[1]
[1]Department of Electrical Engineering, Graduate School of Engineering, Tohoku University, Sendai, Japan, [2]Chuo Spring Co., Ltd., Miyoshi, Aichi, Japan, [3]Kachi Create LLC, Kobe, Hyogo, Japan, [4]Univ. Lyon, INSA-Lyon, Lyon, France, [5]ELyTMaX IRL 3757, CNRS, University Lyon, INSA Lyon, Centrale Lyon, Université Claude Bernard Lyon, Tohoku University, Sendai, Japan, [6]Frontier Research Institute for Interdisciplinary Sciences, Tohoku University, Sendai, Japan

03:24 PM-03:36 PM
DE-06. Fundamental principle of oblique magnetic field assisted vibration power generator and its design for high output power
K. Imamura, Y. Nakamura, M. Ohtake
Yokohama National University, Yokohama, Japan

03:36 PM-03:48 PM
DE-07. Magnetically-Modulated Ionization in a MEMS-Based Three Electrode Sensor for Vector Detection of Weak Power Frequency Fields
W. Muhammad[1, 2]
[1]Semiconductor Institute, Guangdong Academy of Science, Guangzhou, Guangdong, China, [2]School of Instrument Science and Technology, Xian Jiaotong University, Xian, Shaanxi, China

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM
DE-08. Experimentally Validated Multiscale Modeling of Thin-Film MI Sensors
G. Gestoso[1], D. de Cos Elices[3], E. Fernández[2], N. Lete[1], A. García-Arribas[1, 2]
[1]Departamento de Electricidad y Electrónica, Universidad del País Vasco, UPV/EHU, Leioa, Vizcaya, Spain, [2]Basque Center for Materials, Applications and Nanostructures, BCMaterials., Leioa, Vizcaya, Spain, [3]Departamento de Física, Universidad del País Vasco, UPV/EHU, Vitoria, Alava, Spain

04:27 PM-04:39 PM
DE-09. Scaling Electropermanent Magnet-Controlled Magnetic Soft Actuators
H. Htet, A. El-Ghazaly
Electrical and Computer Engineering, Cornell University, Ithaca, New York, United States

04:39 PM-04:51 PM
DE-10. Magnetic, micromagnetic and magneto-optical characterisation of the degradation of the magnetic properties of electrical steels due to cyclic mechanical loading
M. Smaga, C. Backes, P. Thevaruban
Institute of Materials Science and Engineering (WKK), RPTU, Kaiserslautern, Germany

04:51 PM-05:03 PM
DE-11. Optimal Lamination Direction of Magnetic Shields for Tank and Frame in Power Transformer
Y. Takahashi[1], S. Imamori[2], K. Fujiwara[1]
[1]Department of Electrical Engineering, Doshisha University, Kyotanabe, Japan, [2]Advanced Technology Laboratory, Fuji Electric Co., Ltd., Tokyo, Japan

05:03 PM-05:15 PM
DE-12. An Elevated Temperature Comparison of Magnetic Materials for High-power Wireless Charging of Electric Vehicles
A. K. Bailey, S. Kim, G. Covic
ECSE, University of Auckland, Auckland, Auckland, New Zealand

05:15 PM-05:27 PM
DE-13. Investigation of Output Power Improvement in an Electrothermal Multi-Energy Dual-Stator PMSM Based on an α-Fe/Cr-Rich Dual-Phase Magnetic Composite
J. Yuan[1, 2], Y. Wang[1, 2], H. Wang[1, 2], H. Zhou[1, 2], F. Xiao[1, 2], D. Dong[3]
[1]School of Electrical Engineering and Automation, Wuhan University, Wuhan, Hubei, China, [2]State Key Laboratory of Power Grid Environmental Protection, School of Electrical Engineering and Automation, Wuhan University, Wuhan, Hubei, China, [3]Xiangtan Electric Manufacturing Co., Ltd, Xiangtan, Hunan, China

SESSION DF: MAGNETORESISTANCE I
Chair(s): Y. Li, *Argonne National Laboratory, Lemont, Illinois, United States*
Wednesday, November 4, 2026
02:00 PM-05:30 PM
South Pacific 3/4

02:00 PM-02:36 PM
DF-01. Large Tunneling Magnetoresistance in All-Oxide Magnetic Tunnel Junctions with Perpendicular Magnetic Anisotropy
T. Banerjee
University of Groningen, Groningen, Netherlands

02:36 PM-02:48 PM
DF-02. Dependence of electrical 1/f noise on annealing conditions in magnetic tunnel junctions with Mg-Al-O barriers
H. He[1], C. Zhang[1, 2], T. Nakano[1, 3], Y. Wang[1], M. Oogane[1, 4]
[1]Tohoku Univ., Sendai, Japan, [2]CIES, Tohoku Univ., Sendai, Japan, [3]Green X-Tech, Tohoku Univ., Sendai, Japan, [4]CSIS, Tohoku Univ., Sendai, Japan

02:48 PM-03:00 PM
DF-03. Experimental Signatures of Topological Transport in Polycrystalline FeSi Thin Films
R. Mantovan[1], A. Bozhko[2], V. Zhurkin[2], A. Bogach[2], A. Khanas[3], S. Zarubin[3], A. Zenkevich[3], V. Glushkov[2]
[1]Unit of Agrate Brianza, CNR-IMM, Agrate Brianza (MB), Italy, [2]Prokhorov General Physics Institute, Russian Academy of Sciences, Moskow, Russian Federation, [3]Moscow Institute of Physics and Technology, Moskow, Russian Federation

03:00 PM-03:12 PM

DF-04. Large Tunnel Magnetocapacitance of up to 661% at High Frequencies in FeCoB/MgO/FeCoB Magnetic Tunnel Junctions

R. Okazaki[1], Y. Shibata[1], M. Matsuzaka[1], M. Wakamoto[1], J. Uzuhashi[5], T. Ohkubo[5], H. Sukegawa[2], G. Xiao[3], H. Kaiju[1, 4]
[1]Faculty of Science and Technology, Keio University, Yokohama, Kohoku-ku, Kanagawa, Japan, [2]Research Center for Magnetic and Spintronic Materials, National Institute for Materials Science, Tsukuba, Ibaraki, Japan, [3]Department of Physics, Brown University, Providence, Rhode Island, United States, [4]Center for Spintronics Research Network, Keio University, Yokohama, Kanagawa, Japan, [5]National Institute for Materials Science, Tsukuba, Ibaraki, Japan

03:12 PM-03:48 PM

DF-05. Spin−Orbit Torque Memory to In-Memory Computing: Materials, Arrays, and Architectures for Energy-Efficient AI Hardware

Y. Huang
Materials Science and Engineering, National Yang Ming Chiao Tung University, Hsinchu City, Taiwan

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM

DF-06. Anisotropic Magneto-transport properties in Te/metal Bilayers

A. Mitsuzuka, Y. Kobayashi, S. Wang, M. Kawaguchi, M. Hayashi
Department of Physics, The University of Tokyo, Tokyo, Japan

04:27 PM-05:03 PM

DF-07. Chirality-Induced Spin Selectivity via Interlayer Exchange Coupling with an Iridium Spacer Layer

S. Miwa[1], S. Yoshioka[1], S. Kamisaka[1], M. Matsuzaka[1], T. Yamamoto[2], T. Nozaki[2]
[1]The Institute for Solid State Physics, The University of Tokyo, Kashiwa, Chiba, Japan, [2]Research Institute for Hybrid Functional Integration, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Ibaraki, Japan

05:03 PM-05:15 PM

DF-08. High-entropy oxides tunnel barrier LiTiMgAlGaO for magnetic tunnel junctions

R. R. Sihombing[1, 2], T. Scheike[1], J. Uzuhashi[1], H. Yasufuku[1], T. Ohkubo[1], Z. Wen[1], S. Mitani[1, 2], H. Sukegawa[1, 2]
[1]Spintronics, 1National Institute of Materials Science, Tsukuba, Ibaraki, Japan, [2]Graduate School of Science and Technology, Tsukuba University, Tsukuba, Ibaraki, Japan

05:15 PM-05:27 PM

DF-09. Investigation of spin-mediated thermal transport in CoFe/NM multilayers: NM layer thickness and material dependence (NM=Ag, Pt)

F. Makino[1, 2], T. Hirai[2], H. Suto[2], K. Uchida[1, 2, 3], Y. Sakuraba[1, 2]
[1]University of Tsukuba, Tsukuba, Ibaraki, Japan, [2]National Institute for Materials Science (NIMS), Tsukuba, Ibaraki, Japan, [3]The University of Tokyo, Kashiwa, Chiba, Japan

SESSION DG: MAGNONICS I

Chair(s): D. R. Hart, *Mathematics and Physics, Southern University and A & M College, Baton Rouge, Louisiana, United States*

Wednesday, November 4, 2026

02:00 PM-05:30 PM

Sea Pearl

02:00 PM-02:36 PM

DG-01. Magnetic Metamaterials with Time-Varying Permeability

T. Kodama

Institute for Excellence in Higher Education, Tohoku University, Sendai, Japan

02:36 PM-02:48 PM

DG-02. MEMS-magnonic devices for reconfigurable spin-wave interference and inverse design

A. Angotti[1], F. Travagnin[1], M. Cocconcelli[1, 4], B. Heinz[2], A. Papp[3], F. Kohl[2], G. Csaba[3], P. Pirro[2], F. Maspero[1], R. Bertacco[1]

[1]Politecnico di Milano, Milan, Italy, [2]Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau, Kaiserslautern, Germany, [3]Pazmany Peter Catholic University, Budapest, Hungary, [4]Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France

02:48 PM-03:00 PM

DG-03. Standalone Magnonic Platform with Engineered Micromagnetic Bias and Dual Current- and MEMS-Driven Field Control

M. Cocconcelli[1, 2], A. Angotti[1], F. Maspero[1], A. Cattoni[1], R. Bertacco[1]

[1]Physics Department, Politecnico di Milano, Milan, Italy, [2]Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France

03:00 PM-03:12 PM

DG-04. Tuning spin wave intensities in a y-shaped magnonic waveguide

L. Compton[1], J. Liu[2], K. Buchanan[1]

[1]Physics, Colorado State University, Fort Collins, Colorado, United States, [2]Georgia Southern University, Statesboro, Georgia, United States

03:12 PM-03:24 PM

DG-05. A Spin-Wave-Based Spectrometer with Parallel Electrical Readout

J. Greil[1], M. Hofschen[1], F. Naunheimer[1], V. Ahrens[1], L. Maucha[2], A. Papp[2], G. Csaba[2], M. Becherer[1]

[1]School of Computation, Information, and Technology, Technical University of Munich, Garching bei Muenchen, Bavaria, Germany, [2]Faculty of Information Technology and Bionics, Pázmány Péter Catholic University, Budapest, Hungary

03:24 PM-03:36 PM

DG-06. A Hybrid Magnonic Phase Shifter Based on the Local Influence on Propagating Spin Waves

J. Greil[1], A. Angotti[2], F. Kohl[3], A. Papp[4], M. Wagner[3], M. Cocconcelli[2], A. Del Giacco[2], F. Maspero[2], B. Heinz[3], G. Csaba[4], R. Bertacco[2], M. Becherer[1], P. Pirro[3]

[1]School of Computation, Information, and Technology, Technical University of Munich, Garching bei Muenchen, Bavaria, Germany, [2]Department of Physics and Polifab, Politecnico di Milano, Milano, Italy, [3]Fachbereich Physik and Landesforschungszentrum OPTIMAS, Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau, Kaiserslautern, Germany, [4]Faculty of Information Technology and Bionics, Pázmány Péter Catholic University, Budapest, Hungary

03:36 PM-03:48 PM
DG-07. Generation of Ultra-Broadband Frequency Comb in Strongly Bistable Nonlinear Magnonic Resonator
Y. Jiang[3], V. Tyberkevych[1], Y. Huang[3], Z. Yan[3], A. Pishehvar[3], A. N. Slavin[1], X. Zhang[2, 3]
[1]Department of Physics, Oakland University, Rochester, Michigan, United States, [2]Department of Physics, Northeastern University, Boston, Massachusetts, United States, [3]Electrical and Computer Engineering, Northeastern University, Boston, Massachusetts, United States

03:48 PM-04:00 PM
DG-09. State Tomography of Itinerant Magnons
J. Lim[1, 2], M. Kocyigit[1, 2], M. Song[3], K. Kim[4], Y. Li[3], W. Pfaff[1, 5], A. Hoffmann[1, 2, 5]
[1]Materials Research Laboratory, University of Illinois Urbana-Champaign, Urbana, Illinois, United States, [2]Materials Science and Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, United States, [3]Materials Science Division, Argonne National Laboratory, Lemont, Illinois, United States, [4]Department of Physics, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), [5]Department of Physics, University of Illinois Urbana-Champaign, Urbana, Illinois, United States

04:00 PM-04:12 PM
DG-11. Nonreciprocal Spin-Wave Propagation in Bi-Substituted Yttrium Iron Garnet Bilayers
J. Marquez Chavez, O. Wojewoda, C. A. Ross
Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States

SESSION DH: DOMAINS, SKYRMIONS AND MAGNETIC TEXTURES
Chair(s): P. Upadhyaya, *University of Purdue, W Lafayette, Indiana, United States*
Wednesday, November 4, 2026
02:00 PM-05:30 PM
Nautilus

02:00 PM-02:36 PM
DH-01. Real Space Imaging of Field Driven Magnetic Domain Wall Motion with Lorentz Transmission Electron Microscopy
H. Arava
Argonne National Laboratory, Lemont, Illinois, United States

02:36 PM-03:12 PM
DH-02. Time-resolved coherent x-ray scattering measurements on complex oxides
R. Kukreja
Materials Science and Engineering, University of California Davis, Davis, California, United States

03:12 PM-03:24 PM
DH-05. Reliable Shifting of 300 nm Magnetic Domains in Nanopatterned W/CoFeB/MgO Devices
M. Quinsat, N. Umetsu, M. Yoshikawa, M. Kado
Frontier Technology R&D Institute, Kioxia, Yokohama, Japan

03:24 PM-03:36 PM
DH-06. Domain wall-based spintronic devices beyond binary technologies: from materials to applications
J. Jeon, S. Parkin
Max Planck Institute of Microstructure Physics, Halle, Germany

03:36 PM-03:48 PM
DH-07. Hybrid topology bubbles in Fe/Gd multilayers
J. A. Reddinger[2], S. Montoya[1], E. Fullerton[1], B. McMorran[2]
[1]Center for Memory and Recording Research, University of California San Diego, San Diego, California, United States, [2]Physics, University of Oregon, Eugene, Oregon, United States

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM
DH-08. Getting chiral heterostructures right: accurate interface treatment in micromagnetic simulations
C. Abert, F. Bruckner, D. Suess
University of Vienna, Vienna, Austria

04:27 PM-04:39 PM
DH-09. The Role of Topology in Magnetic Texture Stability
K. Litzius[1, 2]
[1]University of Augsburg, Augsburg, Germany, [2]Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Berlin, Germany

04:39 PM-04:51 PM
DH-10. Field free magnetic domain wall motion driven by sound
A. Rivelles[1], R. Yanes[2], L. Torres[2], M. Abuin[1], J. Grandal[1], M. Sepehr[1], G. Orero-Gámez[6], R. Guedas[3], L. Frnández-García[4], R. Izquierdo[1], M. C. Maicas[1], M. Sanz[1], J. Pedrós[1], F. Calle[1], S. Ruiz Gómez[5], W. Khaliq[5], M. Angel[5], S. Velez[6], M. Foerster[5], L. Lopez-Diaz[2], J. Prieto[1]
[1]Instituto de Sistemas Optoelectrónicos y Microtecnología (ISOM), Universidad Politécnica de Madrid (UPM), Madrid, Madrid, Spain, [2]Applied Physics Department, Universidad de Salamanca, Salamanca, Castilla y León, Spain, [3]Université Grenoble Alpes, CNRS, CEA, Grenoble INP, SPINTEC, Grenoble, France, [4]Departamento de Física de Materiales, Universidad Complutense de Madrid, Madrid, Madrid, Spain, [5]ALBA Synchrotron Light Facility, Barcelona, Spain, [6]Spintronics and Nanodevices Laboratory, Departamento de Fisica de la Materia Condensada and Condensed Matter Physics Center (IFIMAC), Universidad Autonoma de Madrid, Madrid, Madrid, Spain

04:51 PM-05:03 PM
DH-11. Real-space imaging of magnon-driven bubble dynamics in a magnetic insulator
P. Che[1], S. Wintz[2, 3], T. Srivastava[4], N. Reyren[1], D. Gouéré[1], S. Mantion[1], A. El Kanj[1], S. Finizio[5], M. Weigand[2], A. Mucchietto[6], D. Grundler[6, 7], G. Schütz[3], J. Kim[4], V. Cros[1], A. Anane[1]
[1]Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France, [2]Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Berlin, Germany, [3]Max Planck Institute for Intelligent Systems, Stuttgart, Germany, [4]Centre de Nanosciences et de Nanotechnologies, CNRS, Université Paris-Saclay, Palaiseau, France, [5]Swiss Light Source, Paul Scherrer Institute, Villigen, Switzerland, [6]Laboratory of Nanoscale Magnetic Materials and Magnonics, Institute of Materials (IMX), École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland, [7]Institute of Electrical and Micro Engineering (IEM), École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland

SESSION DP: SOFT MAGNETIC MATERIALS II (POSTER SESSION)
Chair(s): T. Taniguchi, *Tohoku University, Sendai, Japan*
Wednesday, November 4, 2026
03:00 PM-06:00 PM
Coral 4

DP-01. Evaluation of Domain Wall Width and Magnetic Properties in Low-Anisotropy In-Plane magnetized FeAlSi Nanopillars For Highly Sensitive Magnetic Sensors
R. Hirama[1], T. Kubota[2], S. Ono[3], M. Tsunoda[5, 6], M. Oogane[1, 4]
[1]Department of Applied Physics, Graduate School of Engineering, Tohoku University, Sendai, Miyagi Prefecture, Japan, [2]Department of Advanced Spintronics Medical Engineering, Graduate School of Engineering, Tohoku University, Sendai, Miyagi Prefecture, Japan, [3]International Center for Synchrotron Radiation Innovation Smart, Tohoku University, Sendai, Miyagi Prefecture, Japan, [4]Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Miyagi Prefecture, Japan, [5]Department of Electronic Engineering, Graduate School of Engineering, Tohoku University, Sendai, Miyagi Prefecture, Japan, [6]Research Center for Green X-Tech, Tohoku University, Sendai, Miyagi Prefecture, Japan

DP-02. Study on magnetic properties of $(Fe_{0.72}Ga_{0.28})_{100-x}Al_x$ films with various Al contents
F. Momota[1], S. Ajia[1], T. Miyazaki[1], S. Muroga[1], Y. Endo[1, 2]
[1]Tohoku University, Sendai, Japan, [2]CSIS, Sendai, Japan

DP-03. Magnetic Properties of Fe-6.5Si Soft Magnetic Composites via Micro Fe Based Fillers
J. Seo[1], Y. In[1], D. Lee[1], S. Park[1], D. Kim[2], B. Lee[3]
[1]Physics, Hankuk University of Foreign Studies, Yongin-Si, Gyeonggi-Do, Korea (the Republic of), [2]Kolon industries, Seoul, Korea (the Democratic People's Republic of), [3]Electronic Physics, Hankuk University of Foreign Studies, Yongin-Si, Gyeonggi-Do, Korea (the Republic of)

DP-04. High Anisotropy and Low Damping FeGaB Soft Magnetic Films for C-Band RF Applications
B. Luo[1], J. E. Shoup[2], D. Huang[1], V. Kalappattil[3], M. Wu[3, 1], D. B. Gopman[2], N. X. Sun[1]
[1]Department of Electrical and Computer Engineering, Northeastern University, Boston, Massachusetts, United States, [2]Materials Science & Engineering Division, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, [3]Department of Physics, Northeastern University, Boston, Massachusetts, United States

DP-06. High-Frequency Magnetic Characterization of Fe-Based Nanocrystalline Alloys Under Temperature and Rotational Magnetization Effects
M. Yang[1, 4], Y. Li[2], G. Zhou[2], Z. Lin[2], Z. Hu[1, 4], J. Li[1, 4], Q. Yang[3]
[1]School of Vehicle and Mobility, Tsinghua University, Beijing, China, [2]State Key Laboratory of Intelligent Power Distribution Equipment and System, Hebei University of Technology, Tianjin, China, [3]Tianjin University of Technology, Tianjin, China, [4]State Key Laboratory of Intelligent Green Vehicle and Mobility, Tsinghua University, Beijing, China

DP-08. A joint theoretical-experimental study of B2 phase $Al_{50}Cr_{25}Co_{25}$ alloy
H. Aihemaiti[1, 2], E. Dastanpour[1, 2], P. Svedlindh[3], L. Vitos[1, 2, 4]
[1]Department of Materials Science and Engineering, KTH Royal Institute of Technology, Stockholm, Sweden, [2]Wallenberg Initiative Materials Science for Sustainability, Department of Materials Science and Engineering, KTH Royal Institute of Technology, Stockholm, Sweden, [3]Department of Materials Science and Engineering, Uppsala University, Uppsala, Sweden, [4]Department of Physics and Astronomy, Uppsala University, Uppsala, Sweden

DP-09. Effect of Nb and W addition on B2 ordering and magnetic properties of Fe-49Co-2V alloy

T. Sato[1], Y. Ikeda[2], M. Enoki[3], T. Iriyama[5], T. Omori[4]
[1]Corporate Research & Development Center, Daido Steel Co., Ltd., Nagoya, Aichi, Japan, [2]Institute for Materials Research, Tohoku University, Sendai, Miyagi, Japan, [3]Faculty of Materials for Energy, Shimane University, Matsue, Shimane, Japan, [4]Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan, [5]Corporate Research and Development Laboratory, Daido Steel Co., Ltd., Nagoya, Aichi, Japan

DP-10. Exploring the Synthesis, Phase Evolution, and Magnetic Characterization of the Fe9Co7 Phase

S. A. Marini, S. Maness, D. Dunand, G. Snyder
Materials Science and Engineering, Northwestern University, Evanston, Illinois, United States

DP-11. Optimization of Inductance Tuning Range and Core Loss in Orthogonal Controllable Reactors Based on Nanocrystalline Alloys

J. Yuan[1, 2], H. He[1, 2], J. Hou[1, 2], H. Zhou[1, 2], F. Xiao[1, 2]
[1]State Key Laboratory of Power Grid Environmental Protection, School of Electrical Engineering and Automation, Wuhan University, Wuhan, Hubei Province, China, [2]School of Electrical Engineering and Automation, Wuhan University, Wuhan, Hubei Province, China

DP-12. Deep Magnetic Structural Analyses within Soft Magnetic Materials Using Neutrons

H. Mamiya[2], T. Kumada[1], t. shinohara[3], R. Gautam[2], H. Sepehri-Amin[2]
[1]Japan Atomic Energy Agency, Tokai, Japan, [2]National Institute for Materials Science, Tsukuba, Japan, [3]The High Energy Accelerator Research Organization, Tsukuba, Japan

DP-13. Principal component analysis of first-order reversal curve diagrams for highly neutron-irradiated reactor pressure vessel steels

S. Kobayashi[1], M. Horvath[2], I. Szenthe[2], F. Gillemot[2], L. Almasy[2], A. Horvath[2]
[1]Iwate University, Morioka, Japan, [2]Centre for Energy Research, Budapest, Hungary

DP-15. Reduced Core Loss in FeSiB Amorphous Alloy Powder Cores by Controlling TEOS Content

D. Lee[1], J. Seo[1], T. Kim[1], S. Park[1], D. Kim[2], B. Lee[3]
[1]Physics, Hankuk University of Foreign Studies, Yongin-Si, Gyeonggi-Do, Korea (the Republic of), [2]Kolon industries, Seoul, Korea (the Republic of), [3]Electronic physics, Hankuk University of Foreign Studies, Yongin-Si, Gyeonggi-Do, Korea (the Republic of)

DP-16. Transient Magnetic Response of Nanocrystalline Iron Core in Saturated Core Type Fault Current Limiter: How Saturation Flux Density Determines Current-Limiting Dynamics

J. L. Liu, J. Yuan, H. Zhou, Z. Zhang
Wuhan University, Wuhan, China

SESSION DQ: ELECTROMAGNETIC MACHINES AND HIGH-FREQUENCY POWER TECHNOLOGIES (POSTER SESSION)

Chair(s): N. A. Natekar, *Western Digital, San Jose, California, United States*

Wednesday, November 4, 2026

03:00 PM-06:00 PM

Coral 4

DQ-01. Two-Stage Optimization of an Induction Motor Considering an Equivalent Circuit Parameter Based Stray Load Loss Model

H. Ban[1], S. Kim[1], K. Yu[1], S. Kim[1], J. Park[1], S. Eom[1], K. Shin[2], J. Choi[1]

[1]Chungnam National University, Daejeon, Korea (the Republic of), [2]Changwon National University, Changwon, Korea (the Republic of)

DQ-02. Design and Experimental Validation of a Permanent Magnet Synchronous Generator for a Small-Scale Point Absorber Wave Energy Converter under Irregular Waves

J. Park[1], S. Kim[1], H. Ban[1], K. Yu[1], K. Shin[2], J. Choi[1]

[1]Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [2]AI Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

DQ-03. Analysis of Electromagnetic Characteristics of Dual-Winding Motors for High-Reliability Steering Systems

S. Kim[2], S. Jeong[1]

[1]Gwangju University, Gangju Metropolitan City, Korea (the Republic of), [2]Korea Electronics Technology Institute, Gangju Metropolitan City, Korea (the Republic of)

DQ-04. Research on Optimization of Core Loss in Phase Shifting Transformers Based on Core Material Selection

J. Yuan, Y. Song, H. Zhou, H. Liu

School of Electrical Engineering and Automation, Wuhan University, Wuhan, China

DQ-05. Influence of Repeater Coil on Transmission Efficiency in Short-Distance for Wireless Power Transfer

T. Takura, Y. Fujimori, Y. Matsuya

Tohoku Institute of Technology, Sendai, Japan

DQ-06. Core Loss Prediction of Induction Machines Considering Rotational Magnetization and Harmonic Loss Separation

J. Kim[1], T. Kim[1], E. Kim[1], M. Lim[1], H. Ban[2], J. Choi[2], K. Shin[3]

[1]Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), [2]Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [3]AI Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

DQ-07. Experimental Evaluation of Thermally Constrained Limiting Flux Density in Magnetic Materials for Common-Mode Transformers

S. Takahashi[1], M. Kato[2]

[1]Nagoya Institute of Technology, Nagoya, Aichi, Japan, [2]Akita University, Akita, Akita, Japan

DQ-08. Magnetic Energy Redistribution Mechanisms in Heterogeneous Resonant Multi-Receiver Wireless Power Transfer Systems

S. Lee

Department of Physical-AI, School of International Engineering and Science, Graduate School of Integrated Energy-A, Jeonbuk National University, Jeonju, Select One, Korea (the Republic of)

DQ-09. Analysis of Core Loss of 10MW Direct Drive Permanent Magnet Synchronous Generator considering 3D Magnetic Flux Path and Rotor Overhang

S. Kim[1], K. Kwak[1], H. Shin[2], K. Shin[3], J. Choi[1]
[1]Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [2]Traction Motor Development Cell, Hyundai Mobis, Uiwang, Korea (the Republic of), [3]Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

DQ-10. Design and Validation of a Manufacturable Counter-Torque Reinforcement Structure for Axial-Flux Block-Coil Generators

H. Kim[1], Y. Lim[1], J. Moon[1], C. Lee[1], W. Kim[2]
[1]Department of Next Generation Energy System Convergence, Gachon University, Seongnam-Si, Korea (the Republic of), [2]Department of Electrical Engineering, Gachon University, Seongnam-Si, Korea (the Republic of)

DQ-11. Design and Thermal Optimization of a High-Frequency Transformer for a Three-Phase LLC-Based EV Charger using SiC Power Semiconductors

Y. Noh, J. Lee, K. Lee, P. Jang, J. Kim
Korea Electronics Technology Institute, Bucheon, Korea (the Republic of)

DQ-12. Analysis of Water Jacket Cooling Performance Considering Motor Loss Characteristics

S. Kim, S. Jeong
Gwangju University, Gangju Metropolitan City, Korea (the Republic of)

DQ-13. Optimal Design of an Active Electromagnetic Damper Based on Eddy Current Damping

M. Shin, M. Jung, T. Jung
Electrical Engineering, Kyungnam University, Changwon, Gyeongsangnam-do, Korea (the Republic of)

DQ-14. Full-Wave Electromagnetic Simulations of Ba−Ni Ferrite Composites for X-Band RCS Control

T. Kim[1], D. Lee[1], S. Park[1], Y. In[1], B. Lee[2]
[1]Physics, Hankuk University of Foreign Studies, Yongin-Si, Gyeonggi-Do, Korea (the Republic of), [2]Electronic physics, Hankuk University of Foreign Studies, Yongin-Si, Gyeonggi-Do, Korea (the Republic of)

DQ-15. External Magnetic Fields Coupling to Cables Within a Slotted Rectangular Enclosure

H. Park[1, 2], S. Kim[2], G. Covic[2]
[1]The University of Suwon, Hwaseong, Korea (the Republic of), [2]The University of Auckland, Auckland, New Zealand

DQ-16. Characteristic Analysis and Air-gap Control of Fixed-Bias Flux Three-phase Magnetic Bearing

Y. Chong[1], J. Kim[1], S. Byun[3], S. Noh[2], H. Cho[1]
[1]Chungnam National University, Daejeon, Korea (the Republic of), [2]Korea Research Institute of Ships & Ocean Engineering, Daejeon, Korea (the Republic of), [3]National Defence Aviation High School, Nonsan, Korea (the Republic of)

SESSION DR: SPINTRONICS AND ORBITRONICS (POSTER SESSION)

Co-Chair(s): B. Park, *KAIST, Daejeon, Korea (the Republic of)* and D. Go, *Department of Physics, Korea University, Seoul , Korea (the Republic of)*

Wednesday, November 4, 2026

03:00 PM-06:00 PM

Coral 4

DR-01LB. Spin-orbitronic cascade effects in terahertz emission from magnetic heterostructures

Y. Kim[1], P. Yadav[2], B. Son[1], J. Heo[1], S. Shin[1], D. Ko[3], R. Mishra[2], K. Lee[1]

[1]Pukyong National University, Busan, Korea (the Republic of), [2]India Institute of Technology, Delhi, India, [3]Gwangju Institute of Science and Technology, Gwangju, Korea (the Republic of)

DR-02. Temperature Dependence of Spin–Orbit Torques in Topological Insulator–Magnetic Multilayer Heterostructures

S. Hait[1], B. Brereton[1, 2, 3], A. Yagmur[1], S. Sasaki[1], G. Burnell[1], C. Marrows[1]

[1]School of Physics and Astronomy, University of Leeds, Leeds, West Yorkshire, United Kingdom, [2]ISIS Neutron and Muon Source, Harwell Science and Innovation Campus, Chilton, Oxfordshire, United Kingdom, [3]Diamond Light Source, Harwell Science and Innovation Campus, Chilton, Oxfordshire, United Kingdom

DR-03. Spin Accumulation Coefficients in Centrosymmetric Systems

J. Lim, K. Lee

Department of Physics, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea (the Republic of)

DR-04. Chirality-Induced Spin Selectivity in Helical Graphene Structures

A. Chugh[1], S. Shin[2], B. Park[2], H. Lee[3]

[1]Applied Physics Program, Rice University, Houston, Texas, United States, [2]Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Daejeon, Korea (the Republic of), [3]Department of Materials Science and NanoEngineering, Rice University, Houston, Texas, United States

DR-05. Spin Current Balance for Fully Angular Control of Spin Polarization

X. Qiu, C. Pan, Y. Guan, X. Duan

School of Physics Science and Engineering, Tongji University, Shanghai, Shanghai, China

DR-06. Field-Free Switching of Perpendicular Magnetization Driven by Orbital Torque from Ti

H. Seo, S. Shin, B. Park

Material Science and Engineering, KAIST, Daejeon, Daejeon, Korea (the Republic of)

DR-07. Enhanced anomalous Nernst effect in disordered CoPt films compared with ordered CoPt

K. Tanabe, M. Mohammadi, H. Awano

Toyota Technological Institute, Nagoya, Japan

DR-08. Orbital Torque in Oxide Ferromagnet Fe_3O_4/Cr Heterostructures

T. Onuma, H. Koizumi, H. Yanagihara

University of Tsukuba, Tsukuba, Japan

DR-09. Enhanced Spin-torque Generation via Current Distribution Engineering in Si/Al Composition-graded Materials

M. Kawai[1], K. Yamanoi[1], Y. Nozaki[1, 2]

[1]Department of Physics, Keio Univ., Yokohama, Japan, [2]Center for Spintronics Research Network, Keio Univ., Yokohama, Japan

DR-10. Chiral-induced Orbital Moment Selectivity in Chiral Semiconductors
I. Baek[1, 2], H. Lee[1, 2], M. Sastges[3, 5, 4], Y. Mokrousov[3, 5], H. Lee[1, 2], D. Go[6, 3, 5]
[1]Department of Physics, Pohang University of Science and Technology, Pohang-si, Korea (the Republic of), [2]Center for Quantum Dynamics of Angular Momentum, Pohang-si, Korea (the Republic of), [3]PGI-1, Forschungszentrum Jülich, Jülich, Germany, [4]Department of Physics, RWTH Aachen University, Aachen, Germany, [5]Institute of Physics, Johannes Gutenberg University Mainz, Mainz, Germany, [6]Department of Physics, Korea University, Seoul, Korea (the Republic of)

DR-11. Proper Theory of Field-Induced Spin and Orbital Magnetic Moment Transport
H. Lee[1, 2], S. Cheon[1, 2], I. Baek[1, 2], H. Lee[1, 2]
[1]Department of Physics, Pohang University of Science and Technology, Pohang, Korea (the Republic of), [2]Center for Quantum Dynamics of Angular Momentum, Pohang, Korea (the Republic of)

DR-12. Origin of Spin-Orbit Torques and Spin Transport in Pt/Co/Cu/NiFe/Cu/Capping Multilayers
Y. Bai, Y. Zhang, T. Wang
Huazhong University of Science and Technology, Wuhan, Hubei, China

DR-13. Spin-orbit torque-based three-dimensional magnetic field sensor using tungsten with modified sputtering conditions
C. Zhang[1, 2], M. Oogane[1, 3]
[1]Graduate School of Engineering, Tohoku Univ., Sendai, Japan, [2]CIES, Tohoku Univ., Sendai, Japan, [3]CSIS, Tohoku Univ., Sendai, Japan

DR-14. Engineering Shape Anisotropy for Field-Free Switching in Perpendicular Nanomagnets
A. Chouhan, H. A. Mendonca, A. Erram, A. A. Tulapurkar
Electrical Engineering, Indian Institute of Technology Bombay, Mumbai, Maharashtra, India

DR-15. Interfacial Spin−Orbit Coupling Driven Enhanced Spin-to-Charge Conversion in Mn_3Sn/Pt/Py Heterostructures
A. Saxena, A. Sahoo, N. Kandwal, P. K. Muduli
Physics, Indian Institute of Technology Delhi, New Delhi, Delhi, India

DR-16. Field-Activated Two-Dimensional Domain Manipulation via Thermally Induced SOT in GdFeCo/Pt Planar Films
H. Awano[1], S. Sumi[1], M. Mohammadi[1], K. Tanabe[1], Y. Nakatani[2]
[1]Toyota Technological Institute, Nagoya, Aichi, Japan, [2]University of Electro-Communications, Chofu, Tokyo, Japan

SESSION DS: DOMAIN WALL MEMORY AND MAGNETIC COMPONENTS FOR NEXT-GENERATION TECHNOLOGIES (POSTER SESSION)

Co-Chair(s): S. Sayed, *Product Engineering, TDK Headway Technologies, Inc., Fremont, California, United States* and V. Kalappattil, *Physics, Northeastern University, Burlington, Massachusetts, United States*

Wednesday, November 4, 2026
03:00 PM-06:00 PM
Coral 4

DS-01. Enhanced coercivity through geometric interconnects in magnetic nanowire and nanotube networks
A. Pereira[1], S. Guidobeth[4], E. Saavedra[2], J. Escrig[2, 3]
[1]Departamento de Ciencias, Facultad de Artes Liberales, Universidad Adolfo Ibáñez, Santiago, Chile, [2]Departamento de Física, Universidad de Santiago de Chile, Santiago, Chile, [3]CEDENNA, Centro de Nanociencia y Nanotecnología, Santiago, Chile, [4]Departamento de Física, Universidad de Chile, Santiago, Chile

DS-03. Interplay of Static Memory and Dynamic Magnetization Effects in Hysteresis Reversal within Electrical Steels
M. Petrun[1], E. Rahmanovic[1], S. Steentjes[2]
[1]FERI, University of Maribor, Maribor, Slovenia, [2]Institute of Electrical Machines (IEM), RWTH Aachen University, Aachen, Germany

DS-04. Demonstration of bit-shifting in vertical domain wall motion memory

D. Jeong[1], F. Ye[1], Y. Shiota[1], R. Hisatomi[1, 2], S. Karube[1], S. Sugimoto[2], S. Kasai[2], T. Ono[1, 3]
[1]Kyoto University, Kyoto, Japan, [2]National Institute for Materials Science, Tsukuba, Japan, [3]Tohoku University, Miyagi, Japan

DS-05. Gradient Enhanced Physics Informed Neural Networks for Nonlinear Magnetostatic Analysis with Practical Coil Geometries

R. Shahbaz[1], C. Zhang[1], H. Fatima[2], S. Babu[1], A. Rehman[3]
[1]Electrical Engineering, State Key Laboratory of Smart Power Distribution Equipment and System, Hebei University of Technology, Tianjin, Hebei, China, [2]School of Physics, Department of Optical Information Science and Technology, School of Physics, Xidian University, Xia'n, Shaanxi, China, [3]School of Science, Institute of Mathematics, Hebei University of Technology, Tianjin, Hebei, China

DS-06. A Modified Reversible Field Formulation in Hauser's Energetic Model for Enhanced Hysteresis Modeling of Grain-Oriented Silicon Steel

S. Babu[1, 2], C. Zhang[1, 2], R. Shahbaz[1, 2], R. Saqib Arshad[1, 2], J. Chi[1, 2]
[1]Electrical Engineering, State Key Laboratory of Smart Power Distribution Equipment and System, Hebei University of Technology, Tianjin, Hebei, China, [2]Electrical Engineering, Hebei Key Laboratory of Equipment and Technology Demonstration of Flexible DC Transmission, Hebei University of Technology, Tianjin, Hebei, China

DS-07. Anisotropic DMI, SOT, and Domain Wall Motion in Pt/Co on Miscut Sapphire Heterostructures

J. Kim[1], S. Kim[1], J. Cho[1], D. Kim[1], J. Cho[2], C. You[1]
[1]Physics and Chemistry, Daegu Gyeongbuk Institute of Science and Technology, Daegu, Gyeongsangbuk-do, Korea (the Republic of), [2]Nanotechnology, Daegu Gyeongbuk Institute of Science and Technology, Daegu, Gyeongsangbuk-do, Korea (the Republic of)

DS-09. Experimental observation of Walker breakdown of spin-orbit torque driven domain-wall motion in synthetic antiferromagnets

S. Yoon[1], A. Okada[2], S. Choe[1]
[1]Physics and Astronomy, Seoul National University, Seoul, Korea (the Republic of), [2]Samsung Advanced Institute of Technology, Samsung Electronics, Suwon, Korea (the Republic of)

DS-10. Current Density Mapping for Domain Wall Velocity in Pt/Co/Ru/Co/Ta Synthetic Antiferromagnets

W. Shim, S. Yoon, S. Choe
Department of Physics and Astronomy, Seoul National University, Seoul, Korea (the Republic of)

DS-11. Mapping Magnetization Reversal in $Nd_2Fe_{14}B$ Nanoparticles: Coherent-to-Incoherent Transition, Gilbert Damping, and Thermal Effects

J. Lisik[1], A. Terko[1], T. Schrefl[2], E. Girt[1]
[1]Department of Physics, Simon Fraser University, Burnaby, British Columbia, Canada, [2]Center for Modelling and Simulation, University for Continuing Education Krems, Wiener Neustadt, Austria

DS-12. Heat Flow Control Model in Isotropic and Anisotropic Nano-Scale Magnetic Systems

C. Westfall, T. Lamichhane
University of Central Oklahoma, Edmond, Oklahoma, United States

DS-13. Chiral Magnetic Field Generation Using Modified Halbach Arrays for Scalable Functional Materials Design

L. Cosgrove, T. Lamichhane
University of Central Oklahoma, Edmond, Oklahoma, United States

DS-14LB. Magnetic-Field-Induced Erasure for Magnetoresistive Random Access Memory for Data Sanitization

S. Lindemann[1], J. Parella[1], G. Boyce[1], H. T. Nembach[2], W. K. Peria[2], M. Pufall[2], W. Rippard[2], M. Schneider[2], D. B. Gopman[1]
[1]National Institute of Standards and Technology, Gaithersburg, Maryland, United States, [2]National Institute of Standards and Technology, Boulder, Colorado, United States

DS-15LB. Correlation of magnetic materials parameters with degree of atomic ordering in CoFeB MRAM free layers

M. Pufall[1], C. Swindells[2], B. Ravel[3], G. Hu[4], H. T. Nembach[1]
[1]Applied Physics Division, NIST, Boulder, Colorado, United States, [2]Department of Physics, University of Colorado, Boulder, Boulder, Colorado, United States, [3]Materials and Measurement Science Division, NIST, Gaithersburg, Maryland, United States, [4]IBM T.J. Watson Research Center, Yorktown Heights, New York, United States

BIERSTUBE
Wednesday, November 4, 2026
05:30 PM-06:30 PM
Coral Lounge
Supported by

MATERION

WOMEN IN MAGNETISM NETWORKING EVENT
Wednesday, November 4, 2026
05:30 PM-06:30 PM
Rainbow Suite & Patio
Supported by

IEEE MAGNETICS

WOMEN IN MAGNETISM WORKSHOP
Wednesday, November 4, 2026
06:30 PM-08:00 PM
Rainbow Suite & Patio
Supported by

IEEE MAGNETICS

SESSION EA: INTELLIGENT MAGNETIC TECHNOLOGIES: FROM MATERIALS TO SYSTEMS

Co-Chair(s): S. Shreya, *Electrical and Computer Engineering Department, Aarhus University, Aarhus, Denmark* and J. Atulasimha, *Virginia Commonwealth University, Richmond, Virginia, United States*

Thursday, November 5, 2026

08:30 AM-12:00 PM

Coral 3

08:30 AM-09:06 AM

EA-01. Hybrid Spintronic Neuromorphic Platforms: From Device Physics to brain-inspired Architectures

J. Atulasimha[1, 2]

[1]Mechanical and Nuclear Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, [2]Electrical and Computer Engineering; Physics (courtesy appt.), Virginia Commonwealth University, Richmond, Virginia, United States

09:06 AM-09:42 AM

EA-02. Scaling probabilistic computing for AI and optimization

Q. Shao

ECE, The Hong Kong University of Science and Technology, Hong Kong, Hong Kong

09:42 AM-10:18 AM

EA-03. Harnessing Magnetization Dynamics for Energy-Efficient Spintronic Intelligent Computing: A Device-to-Circuit Perspective

S. Shreya

Electrical and Computer Engineering Department, Aarhus University, Aarhus, Denmark

10:18 AM-10:45 AM

Break

10:45 AM-10:57 AM

EA-04. Elliptical Voltage-Controlled Magnetic Tunnel Junctions for Probabilistic Computing

J. G. Athas[1], C. Duffee[1], E. Raimondo[2], N. Davila[3], J. Katine[3], G. Finocchio[2], P. Khalili Amiri[1]

[1]Electrical and Computer Engineering, Northwestern University, Evanston, Illinois, United States, [2]Department of Mathematical and Computer Sciences, Physical Sciences and Earth Sciences, University of Messina, Messina, Italy, [3]Western Digital Corporation, San Jose, California, United States

10:57 AM-11:09 AM

EA-05. Comparison of Ferrimagnetic and Antiferromagnetic Tunnel Junctions for High-Speed Random Bitstream Generation

A. N. Chin, S. B. Hamid, J. C. Incorvia

Electrical and Computer Engineering, The University of Texas at Austin, Austin, Texas, United States

11:09 AM-11:21 AM

EA-06. Infomorphic Computing Enabled by Spintronic Devices Toward Localized and Interpretable Machine Learning

Z. Teng[1, 2], J. Chen[1, 2], Y. Zhao[1, 2], Y. Zhang[1, 2], H. Li[1], Z. Xiao[3], Q. Shao[3], Y. Yao[1, 2], H. Zhang[4], H. Liu[4], S. Peng[1, 2], S. Li[1, 2], W. Zhao[1, 2]

[1]School of Integrated Circuit Science and Engineering, Beihang University, Beijing, China, [2]National Key Lab of Spintronics, Institute of International Innovation, Beihang University, Hangzhou, China, [3]Department of Electronic and Computer Engineering, The Hong Kong University of Science and Technology, Hong Kong, China, [4]Truth Memory Corporation, Beijing, China

11:21 AM-11:33 AM
EA-07. Physical Ising Machines with Asymmetric and Time-Delayed Interactions
H. Zhang[1, 2], S. Gibeault[3, 2], M. Daniels[4], P. Talatchian[5], U. Ebels[5], A. Madhavan[4], M. Stiles[4]
[1]School of Engineering and Applied Science, The George Washington University, Washington, District of Columbia, United States, [2]Associate, Physical Measurement Laboratory, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, [3]Institute for Research in Electronics and Applied Physics, University of Maryland, College Park, Maryland, United States, [4]Physical Measurement Laboratory, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, [5]Univ. Grenoble Alpes, CEA, CNRS, Grenoble INP, SPINTEC, Grenoble, France

11:33 AM-11:45 AM
EA-08. Ultra-fast P-bits for Combinatorial Optimization using Voltage-controlled Magnetic Tunnel Junctions
Y. Zhang[1], S. Li[1], A. Lee[2], Z. Liu[1], Z. Chen[1], Y. Yao[1], H. Zhang[3], H. Liu[3], S. Peng[1], W. Zhao[1]
[1]Beihang University, Beijing, China, [2]InstonTech, Suzhou, China, [3]Truth Memory Corporation, Beijing, China

11:45 AM-11:57 AM
EA-09. Wearable Magnetic Sensing for Human Activity Recognition via Deep Learning
S. Rana Muhammad, D. Divyanshu, S. Suhail Mutawakkil, S. Amara, H. Bagci, G. Setti
CEMSE, KAUST, Thuwal, Saudi Arabia

SESSION EB: FRONTIERS IN MAGNETIC REFRIGERATION ACROSS SCALES: MATERIALS, MECHANISMS AND DEVICES
Chair(s): S. Säubert, *kiutra GmbH, Munich, Bayern, Germany*
Thursday, November 5, 2026
08:30 AM-12:00 PM
Coral 5

08:30 AM-09:06 AM
EB-01. Continuous Adiabatic Demagnetization Refrigeration at Scale: Components, Architecture, and Performance Milestones toward Quantum-Ready Millikelvin Cooling
P. Schüßler, A. Kinast, R. A. Chandavar, A. Wendl, J. Rothe, J. Spallek, S. Säubert
kiutra GmbH, Munich, Germany

09:06 AM-09:42 AM
EB-02. Magnetocaloric materials for cryogenic application
X. Tang, H. Sepehri-Amin
National Institute for Materials Science, Tsukuba, Ibaraki, Japan

09:42 AM-09:54 AM
EB-03. Magnetic Refrigerant for Cryogenic Temperature Magnetic Refrigeration
A. T. Saito[1], H. Takeya[1], X. Tang[1], H. Sepehri-Amin[1], K. Matsumoto[2], H. Kitazawa[1], K. Kamiya[1], K. Natsume[1], T. Numazawa[1]
[1]National Institute for Materials Science, Tsukuba, Ibaraki, Japan, [2]Kanazawa University, Kanazawa, Japan

09:54 AM-10:06 AM
EB-04. Impact of Structural Phase Transitions on the Magnetocaloric Effect
A. Kosogor[1, 2, 3], V. A. L'vov[3]
[1]Unversity of Vienna, Vienna, Austria, [2]University for Continuing Education Krems, Krems, Austria, [3]V.G. Baryakhtar Institute of Magnetism of the NAS of Ukraine, Kyiv, Ukraine

10:06 AM-10:18 AM
EB-05. Decoding the interplay of atomic ordering and magnetism via neutron diffraction to optimize magnetocaloric performance in heusler alloys
N. Río-López[1], P. Lazpita[1], J. Rodriguez Velamazan[2], V. Chernenko[1, 3], D. Salazar[3], J. Porro[3, 4]
[1]University of the Basque Country, Bilbao, Spain, [2]Institut Laue Langevin, Grenoble, France, [3]BCMaterials, Bilbao, Spain, [4]Ikerbasque, Bilbao, Spain

10:18 AM-10:45 AM
Break

10:45 AM-11:21 AM
EB-06. The Rotating Magnetocaloric Effect – recent advances in experiments and simulations
R. Kiefe[1], H. B. de Souza[1], R. Almeida[2], R. M. Pinto[2], J. O. Silva[2], G. Oliveira[2], J. H. Belo[2], J. Amaral[1]
[1]Department of Physics and CICECO, University of Aveiro, Aveiro, Aveiro, Portugal, [2]IFIMUP – Institute of Physics for Advanced Materials, Nanotechnology and Photonics, Department of Physics and Astronomy, University of Porto, Faculty of Sciences, Porto, Porto, Portugal

11:21 AM-11:33 AM
EB-07. Chemical ordering and non-linear magnetic behavior: enhancing the magnetocaloric effect in rare-earth free high-entropy materials
V. Fournee[1], D. Sihom Kwekam[1], G. Lengaigne[1], P. Boulet[1], S. Migot[1], J. Ledieu[1], J. Tobola[2], S. Semsari Parapari[3], S. Raznjevic[3], S. Šturm[3], L. Gallo[4], S. Fabbrici[4], F. Cugini[4, 5], M. Solzi[4, 5], F. Albertini[4]
[1]Institut Jean Lamour, CNRS, Nancy, France, [2]AGH University, Krakow, Poland, [3]Jozef Stefan Institute, Ljubljana, Slovenia, [4]IMEM-CNR, Parma, Italy, [5]University of Parma, Parma, Italy

11:33 AM-11:45 AM
EB-09. AI-Driven Real-Time Adaptive Control of Multi-Stage Active Magnetic Refrigeration with Enhanced Performance
M. Ghahremani
CME Department, Shepherd University, Shepherdstown, West Virginia, United States

SESSION EC: HARD MAGNETIC MATERIALS I: HIGH-COERCIVITY AND RARE-EARTH-EFFICIENT ND-FE-B MAGNETS
Co-Chair(s): W. Tang, *Ames National Laboratory, Ames, Iowa, United States* and S. R. Trout, *Spontaneous Materials, Denver, Colorado, United States*
Thursday, November 5, 2026
08:30 AM-12:00 PM
Coral 1

08:30 AM-08:42 AM
EC-02. A Sandwich-Structured Diffusion-Bonding Strategy for Thick Nd–Fe–B Magnets with Enhanced Coercivity and Resistivity
S. Kim, H. Kim, J. An, T. Kim, J. Lee
Korea Institute of Materials Science, Changwon, Korea (the Republic of)

08:42 AM-08:54 AM
EC-03. Microstructure optimization of HREE-free hot-deformed Nd-Fe-B magnets
R. Goto, F. Kihara, Y. Yoshimi, T. Oikawa, H. Miyawaki
Corporate Research and Development Center, Daido Steel Co., Ltd., Nakatsugawa, Japan

08:54 AM-09:06 AM
EC-04. Magnetic domains and microstructures of 2-17 type high Fe-content Sm-Co magnets with high $[BH]_m$ and H_k/H_{cj}
H. Machida, H. Makuta, N. Onishi, A. Urata
Tokin Corporation, Shiroishi, Japan

09:06 AM-09:18 AM
EC-05. The Effect of Grain Connectivity on Coercivity Mechanism in Nd-Fe-B Magnets
A. Bolyachkin, N. Kulesh, H. Sepehri-Amin, X. Tang
National Institute for Materials Science, Tsukuba, Japan

09:18 AM-09:30 AM
EC-06. Toward achieving high-coercivity in Nd-Fe-B sintered magnets *via* Pr-based grain boundary diffusion process
S. Lee[1], J. An[1], S. Lee[1], G. Kim[2], K. Lee[2], S. Kim[1], T. Kim[1], J. Lee[1]
[1]Korea Institute of Materials Science, Changwon, Korea (the Republic of), [2]Ulsan National Institute of Science and Technology, Ulsan, Korea (the Republic of)

09:30 AM-09:42 AM
EC-07. Recycling of Highly Oxidized End-of-Life Nd–Fe–B Magnets *via* Calciothermic Reduction Process
S. Lee[1, 2], T. Kim[1], K. Bae[3], D. Kim[3], K. Lee[2], J. Lee[1]
[1]Department of Magnetic Materials, Korea Institute of Materials Science (KIMS), Changwon-si, Korea (the Republic of), [2]Department of Materials Science and Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan-si, Korea (the Republic of), [3]R&D Center, Star Group Ind. CO. Ltd., Daegu-si, Korea (the Republic of)

09:42 AM-09:54 AM
EC-08. Dy-free sintered N40SH grade magnets achieved by combining blend and surface grain boundary diffusion techniques
W. Tang[1], J. Wang[1], Y. Varma[2], C. Pan[1], J. Cui[1, 2]
[1]Ames National Laboratory, Ames, Iowa, United States, [2]Iowa State University, Ames, Iowa, United States

09:54 AM-10:06 AM
EC-09. Simultaneous improvement in coercivity and remanence of (Nd, Pr)-ultra-saving Ce-substituted RE-Fe-B sintered magnets by grain boundary diffusion process using low-melting Nd-Cu-Al-Ga alloy
S. Lee[1], S. Kim[1], T. Kim[1], K. Bae[2], D. Kim[2], J. Lee[1]
[1]Korea Institute of Materials Science, Changwon, Korea (the Republic of), [2]Star Group Ind. CO., Ltd., Daegu, Korea (the Republic of)

10:06 AM-10:18 AM
EC-10. Near net shape fabrication of anisotropic Nd-Fe-B magnet using hot roll method
C. Pan, J. Cui, W. Tang
Ames National Laboratory, Ames, Iowa, United States

10:18 AM-10:45 AM
Break

10:45 AM-10:57 AM
EC-11. Rare-Earth Coating of Nd-Fe-B Powder by a Low-Temperature Reduction-Diffusion Process for Coercivity Enhancement
J. Kim[1], Y. Hirayama[1], S. Sugimoto[1, 2]
[1]National Institute of Advanced Industrial Science and Technology (AIST), Nagoya, Japan, [2]Graduate School of Engineering, Tohoku University, Sendai, Japan

10:57 AM-11:09 AM
EC-12. Achieving uniaxial magnetic anisotropy in Ce2Fe17N3 through Co- and Sm-substitution
N. Pokhrel[1], A. Raja[2], B. Sales[1], G. Samolyuk[1], D. Schlagel[2], O. Palasyuk[2], A. Palasyuk[2], D. Parker[1]
[1]Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, [2]Ames National Laboratory, Ames, Iowa, United States

11:09 AM-11:21 AM
EC-13. Enhancing Coercivity of Bulk $ThMn_{12}$-type $SmFe_{10}V_2$ Magnets through Dy-Cu Grain Boundary Diffusion
J. Park[1], X. Zheng[1, 2]
[1]Korea Institute of Materials Science, Changwon-si, Korea (the Republic of), [2]Department of Materials Science and Engineering, Pusan National University, Busan, Korea (the Republic of)

SESSION ED: AI/MACHINE LEARNING FOR MAGNETISM, HALF-METALS AND MAGNETIC SEMICONDUCTORS
Co-Chair(s): T. Kubota, *Department of Applied Physics, Tohoku University, Sendai, Miyagi, Japan* and J. Nag, *Physics, University of South Florida, Tampa, Florida, United States* and Y. Zhou, *The Chinese University of Hong Kong, Shenzhen, Shenzhen, Guangdong, China*
Thursday, November 5, 2026
08:30 AM-12:00 PM
Coral 2

08:30 AM-09:06 AM
ED-01. One Model to Rule Them All: From Ultrafast Dynamics to Magnetostatic Modes
E. Iacocca
University of Colorado Colorado Springs, Colorado Springs, Colorado, United States

09:06 AM-09:18 AM
ED-02. Fine-Tuned Large Language Models for Multi-Property Prediction and Inverse Design of Magnetic Materials
S. Itani[1], Y. Zhang[1], R. Itani[2], D. Kassym[3], Y. Kao[4, 5], J. Zang[1]
[1]Physics and Astronomy, University of New Hampshire, Durham, New Hampshire, United States, [2]Department of Electrical and Computer Engineering, University of New Hampshire, Durham, New Hampshire, United States, [3]Department of Mathematics, Nazarbayev University, Astana, Kazakhstan, [4]Department of Physics, National Taiwan University, Taipei, Taiwan, [5]Center for Theoretical Physics, National Taiwan University, Taipei, Taiwan

09:18 AM-09:30 AM
ED-03. Extracting Material Parameters from Magnetic Domain Patterns with Deep Learning
J. Smith[1, 2], D. Suess[1], F. S. Slanovc[2]
[1]Faculty of Physics, University of Vienna, Vienna, Austria, [2]Silicon Austria Labs, Villach, Austria

09:30 AM-09:42 AM
ED-04. Deep learning statistical defect models on magnetic material dynamic and static properties
C. Eagan, M. Copus, E. Iacocca
University of Colorado Colorado Springs, Colorado Springs, Colorado, United States

09:42 AM-09:54 AM
ED-05. Predicting nonlinear magnetization dynamics with Fourier neural operator
C. Eagan, E. Iacocca
University of Colorado, Colorado Springs, Colorado Springs, Colorado, United States

09:54 AM-10:06 AM
ED-06. Fourier Neural Operators for full-field Micromagnetic Simulation of Skyrmion breathing dynamics
S. Sabyasachi[1], M. Rajib[1], J. Atulasimha[1, 2]
[1]Mechanical & Nuclear Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, [2]Electrical & Computer Engineering, Virginia Commonwealth University, Richmond, Virginia, United States

10:06 AM-10:18 AM
ED-07. Advanced micromagnetic simulation of several billion magnetic unknowns on multiple GPUs using JAX and AI-assisted programming
D. Suess, R. Kraft, F. Bruckner, C. Abert
University of Vienna, Vienna, Austria

10:18 AM-10:45 AM
Break

10:45 AM-11:21 AM
ED-08. The 4-2 rule: The (Proposed) Answer to Heusler Alloys, Stability, and (Ordering) Everything
P. LeClair, A. Hauser
Physics and Astronomy, The University of Alabama, Tuscaloosa, Alabama, United States

11:21 AM-11:33 AM
ED-09. Half-Metallicity in Tetragonal Mn_2PtSn with Non-coplanar Spin Structure Revealed by Negative Anisotropic Magnetoresistance
T. Tasaki[2, 1], T. Dohi[2], K. Saijo[2, 1], S. Fukami[2, 1, 3]
[1]Department of Electronic Engineering, Tohoku Univ., Sendai, Japan, [2]Lab. for Nanoelectronics and Spintronics, RIEC, Tohoku Univ., Sendai, Japan, [3]WPI-AIMR, Tohoku Univ., Sendai, Japan

11:33 AM-11:45 AM
ED-10. Chemical control of electronic structure and emergent transport in quaternary Heusler alloy CoRuCrGe
J. Nag[1, 2], P. Sharma[1], R. Roy Chowdhury[3, 1], S. Jan[1], A. Alam[2], K. G. Suresh[2], M. Phan[1, 4], S. Witanachchi[1], H. Srikanth[1]
[1]Physics, University of South Florida, Tampa, Florida, United States, [2]Physics, Indian Institute of Technology, Mumbai, Maharashtra, India, [3]Physics, Dream Institute of Technology, Maulana Abul Kalam Azad University of Technology, Kolkata, West Bengal, India, [4]Center for Materials Innovation and Technology, VinUniversity, Hanoi, Viet Nam

SESSION EE: COMPLEX MAGNETIC ORDERS AND SPIN TEXTURES

Co-Chair(s): R. Kukreja, *Materials Science and Engineering, University of California, Davis, Davis, California, United States* and Y. Tao, *Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, Minnesota, United States*

Thursday, November 5, 2026

08:30 AM-12:00 PM

South Pacific 1/2

08:30 AM-09:06 AM

EE-01. Emergent Functionality of Spin Spirals across *p*-Wave and Topological Magnets

S. Okumura[1, 2, 3]

[1]Quantum-Phase Electronics Center, The University of Tokyo, Tokyo, Japan, [2]Center for Emergent Matter Science, RIKEN, Wako, Japan, [3]WPI-SKCM2, Hiroshima University, Higashi-Hiroshima, Japan

09:06 AM-09:18 AM

EE-02. Magnetic Long-range Order In The Purely Organic Triangular Magnet TNN-CH_3CN

M. Pardo-Sainz[1, 2], Y. Kamiya[6], T. Ono[2], K. Kojima[3], K. Ohishi[4], J. Rodriguez Velamazan[5], Y. Hosokoshi[2], J. Campo[1]

[1]Spanish National Research Council (CSIC), Zaragoza, Spain, [2]Osaka Metropolitan University, Sakai, Japan, [3]TRIUMF, Vancouver, British Columbia, Canada, [4]CROSS, Tokai, Japan, [5]Institut Laue Langevin, Grenoble, France, [6]Shanghai Jiao Tong University, Shanghai, China

09:18 AM-09:30 AM

EE-03. Evolution of Competing Magnetic Orders in the Doped Antiferromagnetic Mott Insulator $Ni_{1-x}Co_xS_2$

Y. Tao[1], B. Das[1], M. Maiti[1], K. Heltemes[1], C. Komar[1], G. Rojas[2], J. Garcia-Barriocanal[2], T. Birol[1], C. Leighton[1]

[1]Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, Minnesota, United States, [2]Characterization Facility, University of Minnesota, Minneapolis, Minnesota, United States

09:30 AM-09:42 AM

EE-05. Evolution of Collective Magnetic States in Fe-Doped NiO Nanoparticles: From Antiferromagnetism to Robust Spin Glass

H. Abbas, T. Karki, P. Joshi, J. Mohapatra, P. Liu

Physics, University of Texas at Arlington, Arlington, Texas, United States

09:42 AM-09:54 AM

EE-07. Magnetic and Magnetoelectric Properties of Fluorite-Related Polar Magnets Ln_3RuO_7 (*Ln* = Sm, Eu, Gd)

T. Shirasaki, T. Ishikawa, H. Kuwahara

Department of Engineering and Applied Sciences, Sophia University, Tokyo, Japan

09:54 AM-10:06 AM

EE-08. Complex Spin Structure and Magnetic Properties of Mn3−xFexSn alloys

H. Hanggai, N. van Dijk, E. Brück

Delft University of Technology, Delft, Netherlands

10:06 AM-10:18 AM

EE-09. Analysis of Magnetocrystalline Anisotropy from Atom Pair Statistics in Tetragonally Strained Fe-Si Alloys

W. Shang[1], Y. Gohda[2]

[1]Department of Materials Science and Engineering, Institute of Science Tokyo, Yokohama, Kanagawa, Japan, [2]Department of Materials Science and Engineering, Institute of Science Tokyo, Yokohama, Kanagawa, Japan

10:18 AM-10:45 AM

Break

10:45 AM-10:57 AM

EE-10. Magnetic domain evolution in FeMnCoNi and MnCoNi Multi-Principal Element Alloy Thin Films

N. Naushin[1, 2], C. Li[1], E. Abogado[1], Z. Xie[3], S. Nguyen[1], A. T. N'Diaye[2], N. Tamura[2], C. Klewe[2], B. Achinuq[2], R. Kukreja[1]
[1]Materials Science and Engineering, University of California-Davis, Davis, California, United States, [2]Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, California, United States, [3]Physics, University of California-Davis, Davis, California, United States

10:57 AM-11:09 AM

EE-11. Revealing field-driven distorted conical spiral phase in a weakly anisotropic double helical antiferromagnet

J. Hong, K. Jeong, J. Seo, S. Lim, M. Kim, K. Moon, N. Lee, Y. Choi
Department of Physics, Yonsei University, Seoul, Korea (the Republic of)

11:09 AM-11:21 AM

EE-12. Unusual magnetotransport driven by coupled structural and magnetic transitions in the Heusler alloy CrRuMnGe

P. Sharma[1], J. Nag[1, 2], R. Roy Chowdhury[3, 1], S. Jan[1], A. Alam[2], K. G. Suresh[2], M. Phan[1, 4], S. Witanachchi[1], H. Srikanth[1]
[1]Physics, University of South Florida, Tampa, Florida, United States, [2]Physics, Indian Institute of Technology, Mumbai, Maharashtra, India, [3]Physics, Dream Institute of Technology, Maulana Abul Kalam Azad University of Technology, Kolkata, West Bengal, India, [4]Center for Materials Innovation and Technology, VinUniversity, Hanoi, Hanoi, Viet Nam

11:21 AM-11:33 AM

EE-13. From Spontaneous to Driven: Probing Equilibrium and Non-Equilibrium Fluctuations in Quantum Materials via Coherent X-ray Photons

J. J. Turner
SLAC National Accelerator Laboratory, Menlo Park, California, United States

SESSION EF: ALTERMAGNETIC AND ANTIFERROMAGNETIC SPINTRONICS II

Chair(s): S. Kim, *University of Ulsan, Ulsan, Korea (the Republic of)*
Thursday, November 5, 2026
08:30 AM-12:00 PM
South Pacific 3/4

08:30 AM-09:06 AM

EF-01. Gigantic Harmonic Generation using Néel-Torque Antiferromagnetic Resonance

R. Cheng, K. Deng
University of California, Riverside, California, United States

09:06 AM-09:18 AM

EF-02. Electrical detection of magnetic resonance in FeMn/Pt bilayers

K. Tada[1], T. Hattori[1], T. Shinkai[1], A. Yoshida[1], K. Kawagita[2], K. Yabushita[2], T. Fukamachi[2], K. Hayashi[1], S. Iihama[1], Y. Ishikawa[2], T. Moriyama[1]
[1]Materials Physics, Nagoya University, Nagoya, Aichi, Japan, [2]Research Center for Development of Far-Infrared Region, University of Fukui, Fukui, Japan

09:18 AM-09:30 AM

EF-03. Electron tunneling through altermagnetic RuO_2(110)/MgO/CoFeB junctions

Z. Wen[1], M. Roy Chowdhury[2, 1], J. Okabayashi[3], T. Ma[1], S. Thota[2], J. Uzuhashi[1], T. Ohkubo[1], S. Mitani[1], H. Sukegawa[1]
[1]National Institute for Materials Science (NIMS), Tsukuba, Japan, [2]Department of Physics, Indian Institute of Technology Guwahati, Guwahati, India, [3]Research Center for Spectrochemistry, The University of Tokyo, Tokyo, Japan

09:30 AM-09:42 AM
EF-04. Quantum Oscillations Reveal Bulk Altermagnetism in CrSb
H. Wang[1, 2], F. Zhou[1, 3], Y. Ma[1], l. song[1, 3], W. Wang[3], G. Li[1], Y. Lau[1, 2]
[1]Institute of Physics, Chinese Academy of Sciences, Beijing, China, [2]University Chinese Academy of Sciences, Beijing, China, [3]Institute of Quantum Materials and Devices, School of Electronics and Information Engineering, Tiangong University, Tianjin, China

09:42 AM-09:54 AM
EF-05. Hidden and Visible Altermagnetism in Stacked Conventional Antiferromagnetic Layers
Y. Lu
Zhejiang University, Hangzhou, Zhejiang, China

09:54 AM-10:06 AM
EF-06. Observation of hidden altermagnetism in Cs$_{1-\delta}$V$_2$Te$_2$O
Y. Liu
Physics, Zhejiang University, Hangzhou, China

10:06 AM-10:18 AM
EF-07. Deterministic electrical switching in altermagnets via surface antisymmetry groups
K. Belashchenko
Department of Physics and Astronomy, University of Nebraska-Lincoln, Lincoln, Nebraska, United States

10:18 AM-10:45 AM
Break

10:45 AM-10:57 AM
EF-08. Chemical Pressure–Induced Stabilization of the Cubic Phase in Mn_3Ge
P. Kharel, M. Pulse, M. Anas
Chemistry, Biochemistry and Physics, South Dakota State University, Brookings, South Dakota, United States

10:57 AM-11:09 AM
EF-09. Revealing the origin of XMCD in an altermagnet via three-dimensional control of spins
D. Mallon, P. Radaelli, H. Jani
University of Oxford, Oxford, United Kingdom

11:09 AM-11:21 AM
EF-10. Quantum Mechanism for Piezomagnetism in $S \geqslant 1$ Altermagnets
D. Yamamoto[1, 2], M. Naka[3]
[1]Department of Physics, College of Humanities and Sciences, Nihon University, Setagaya, Tokyo, Japan, [2]RIKEN Center for Quantum Computing, Wako, Saitama, Japan, [3]Department of Science and Engineering, School of Science and Engineering, Tokyo Denki University, Ishizaka, Saitama, Japan

11:21 AM-11:33 AM
EF-11. Seed Layer Effects on the Anomalous Hall Effect in Polycrystalline Antiferromagnetic FeMn
A. Almahmoud, R. E. Maizel, S. Emori
Department of Physics, Virginia Tech, Blacksburg, Virginia, United States

11:33 AM-11:45 AM

EF-12. Structural and Magneto-Transport Properties of Sputtered Mn_5Si_3 Thin Films

C. Langton[1], Z. Chen[1], A. Caruana[2], C. Kinane[2], Y. Ijiri[3], A. J. Grutter[4], J. Borchers[4], G. Yin[1], K. Liu[1]
[1]Department of Physics, Georgetown University, Washington, District of Columbia, United States, [2]ISIS Neutron and Muon Source, Didcot, United Kingdom, [3]Department of Physics and Astronomy, Oberlin College, Oberlin, Ohio, United States, [4]NIST Center for Neutron Research, National Institute of Standards and Technology, Gaithersburg, Maryland, United States

11:45 AM-11:57 AM

EF-13. Probing Altermagnetic Order in Canted Antiferromagnetic Epitaxial NiF_2 Thin Film

I. Nihal[1], H. Schiff[2], J. Vinson[3], N. Dale[6], S. A. Morley[1], S. Choudhury[4], B. Sharif[4], E. Sullivan[4], D. Lederman[4], J. Romhanyi[2], C. Klewe[1], S. Roy[1], E. Fullerton[5]
[1]Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, California, United States, [2]Department of Physics & Astronomy, University of California, Irvine, Irvine, California, United States, [3]National Institute of Standards and Technology, Gaithersburg, Maryland, United States, [4]Department of Physics, University of California, Santa Cruz, Santa Cruz, California, United States, [5]Department of Electrical and Computer Engineering, University of California, San Diego, San Diego, California, United States, [6]Materials Science, Lawrence Berkeley National Laboratory, Berkeley, California, United States

SESSION EG: SPIN DYNAMICS AND MAGNONICS

Chair(s): Y. Shiota, *Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan*
Thursday, November 5, 2026
08:30 AM-12:00 PM
Sea Pearl

08:30 AM-09:06 AM

EG-01. Spin Dynamics in the van der Waals Ferromagnet $CrTe_2$ Engineered by Niobium Doping

A. Laraoui[1], D. R. Lawati[1], P. Karki[2], J. Kumar[1], K. Prasad[2], M. A. Elekhtiar[1], K. Huang[1], B. Tiwari[1], S. Lamichhane[1], R. Timalsina[1], Z. Hubble[2], A. E. Aregbesola[2], J. Watt[3], S. Liou[1], E. Y. Tsymbal[1], J. Wang[2], K. Ambal[2]
[1]University of Nebraska-Lincoln, Lincoln, Nebraska, United States, [2]Wichita State University, Wichita, Kansas, United States, [3]Center for Integrated Nanotechnologies, Los Alamos National Laboratory, Los Alamos, New Mexico, United States

09:06 AM-09:18 AM

EG-02. Large Interband-Driven Anisotropic Gilbert Damping in an Ultrathin Fe Layer Interfaced with MgO

J. Chen[1], I. Kurniawan[2], S. Sakamoto[1, 6], H. Kosaki[1], E. Wei[1], T. Hatajiri[1], K. Ando[3, 4, 5], K. Masuda[2], S. Miwa[1, 7]
[1]The Insititute for Solid State Physics, The University of Tokyo, Chiba, Japan, [2]Research Center for Magnetic and Spintronics Materials, National Institute for Material Science, Tsukuba, Japan, [3]Department of Applied Physics and Physico-Informatics, Keio University, Yokohama, Japan, [4]Keio Institute of Pure and Applied Sciences, Keio University, Yokohama, Japan, [5]Center for Spintronics Research Network, Keio University, Yokohama, Japan, [6]Institute for Materials Research, Tohoku University, Sendai, Japan, [7]Trans-scale Quantum Science Institute, The University of Tokyo, Tokyo, Japan

09:18 AM-09:30 AM

EG-03. Non-equilibrium magnon engineering for thermal transport modulation

T. Hirai[1, 2], T. Morita[7, 1], S. Biswas[3, 1], J. Uzuhashi[1], T. Yagi[5], Y. Yamashita[5], V. K. Kushwaha[1], F. Makino[6, 1], R. Modak[1, 2], Y. Sakuraba[1, 6], T. Ohkubo[1], R. Guo[2], B. Xu[2], J. Shiomi[2], D. Chiba[7, 4], K. Uchida[1, 2, 6]
[1]NIMS, Tsukuba, Japan, [2]The University of Tokyo, Kashiwa, Japan, [3]IITG, Guwahati, India, [4]SRIS, Tohoku University, Sendai, Japan, [5]AIST, Tsukuba, Japan, [6]University of Tsukuba, Tsukuba, Japan, [7]SANKEN, The University of Osaka, Ibaraki, Japan

09:30 AM-09:42 AM

EG-04. Ferromagneto-Elastic Resonance in a Low-Damping Polycrystalline Ferromagnetic Alloy

N. Farhadi, G. T. Street, S. Emori
Physics, Virginia Tech, Blacksburg, Virginia, United States

09:42 AM-09:54 AM
EG-05. Tuning the Macrospin-to-Vortex Transition Probability in Co-based Artificial Spin Vortex Ice via Perpendicular Magnetic Anisotropy
Y. Maruyama[1], A. Mondal[2], R. Ohshima[1, 3], J. Puebla[1, 3], B. Jungfleisch[2], M. Shiraishi[1, 3]
[1]Kyoto University, Kyoto, Japan, [2]University of Delaware, Newark, Delaware, United States, [3]CSRN Kyoto University, Kyoto, Japan

09:54 AM-10:06 AM
EG-06. Scanning NV Magnetometry for Spin-Wave Demultiplexer Design in YIG Film
T. Zheng, J. Zhu
Electrical and Computer Engineering, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States

10:06 AM-10:18 AM
EG-07. Comparison of measurement methods for determining exchange stiffness in ultrathin ferromagnetic films
W. K. Peria[1, 3], C. Swindells[1, 4], J. J. Wisser[5], M. Tanksalvala[5], M. Kiechle[1], G. Hu[2], M. Pufall[5], H. T. Nembach[5]
[1]Associate; Applied Physics Division, National Institute of Standards and Technology, Boulder, Colorado, United States, [2]IBM Research, Yorktown Heights, New York, United States, [3]Department of Physics, University of Colorado Boulder, Boulder, Colorado, United States, [4]Department of Electrical Engineering, University of Colorado Denver, Denver, Colorado, United States, [5]Applied Physics Division, National Institute of Standards and Technology, Boulder, Colorado, United States

10:18 AM-10:45 AM
Break

10:45 AM-10:57 AM
EG-08. Nonlinear Interactions between Surface Acoustic Wave Phonons and Magnons
Y. Todaka, Y. Chen, M. Kawaguchi, M. Hayashi
Department of Physics, The University of Tokyo, Hongo, Tokyo, Japan

10:57 AM-11:09 AM
EG-09. Magnetic Resonance of the Chiral TCS Phase in Fe_3Ga_4 Revealed by Broadband FMR
M. P. Whalen[1], S. Nepal[2], F. M. Abel[3, 4], M. E. Jamer[3], J. Q. Xiao[2]
[1]Quantum Science and Engineering Program, University of Delaware, Newark, Delaware, United States, [2]Department of Physics and Astronomy, University of Delaware, Newark, Delaware, United States, [3]The Volgenau Department of Physics, United States Naval Academy, Annapolis, Maryland, United States, [4]Sensor Science Division, NIST, Gaithersburg, Maryland, United States

11:09 AM-11:21 AM
EG-10. Voltage control of magnonic Fabry-Pérot resonators
A. Frej, R. Mansell, S. van Dijken
Department of Applied Physics, Aalto University, Espoo, Finland

11:21 AM-11:33 AM
EG-11. Efficient modulation of RF signal in standalone monolithic piezo-magnonic-MEMS
M. Cocconcelli[1, 2], A. Angotti[1], P. Florio[1], N. Pellizzi[1], F. Maspero[1], R. Bertacco[1]
[1]Department of Physics, Politecnico di Milano, Milan, Italy, [2]Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France

11:33 AM-11:45 AM
EG-12. Feedback Control of Exceptional Points and Topological Phases in Cavity Magnonics
R. D. McKenzie, R. L. Stamps
Physics and Astronomy, University of Manitoba, Winnipeg, Manitoba, Canada

11:45 AM-11:57 AM

EG-13. Magnon-Mediated Coupling Between Perpendicular Microwave Resonators via a YIG Sphere

P. Pal[1, 2], M. Song[2, 3], S. Kruhlov[4], T. W. Cecil[4], U. Welp[2], R. Divan[5], K. Kim[3], V. Novosad[2], A. Hoffmann[1], Y. Li[2]
[1]Department of Materials Science and Engineering and Materials Research Laboratory, The Grainger College of Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, United States, [2]Materials Science Division, Argonne National Laboratory, Lemont, Illinois, United States, [3]Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), [4]High Energy Physics Division, Argonne National Laboratory, Lemont, Illinois, United States, [5]Center for Nanoscale Materials, Argonne National Laboratory, Lemont, Illinois, United States

SESSION EP: SOFT MAGNETIC MATERIALS III (POSTER SESSION)

Chair(s): H. Tsukahara, *Tohoku University, Sendai, Japan*
Thursday, November 5, 2026
09:30 AM-12:30 PM
Coral 4

EP-01. High Frequency Magnetic Characteristics on Each Crystal Orientation of Polycrystalline Steel Sheet under Mechanical Stress Supply

K. Fujisaki[1], S. Odawara[2]
[1]Toyota Technological Institute, Nagoya, Japan, [2]Ohtama Co. Ltd., Kawasaki, Japan

EP-02. Improving electromagnetic properties of metal powder through surface modification

S. Park[1], J. Seo[1], D. Lee[1], S. Lee[2], B. Lee[3]
[1]Physics, Hankuk University of Foreign Studies, Yongin-Si, Gyeonggi-Do, Korea (the Republic of), [2]Samsung Electro-mechanics, Suwon, Korea (the Republic of), [3]Electronic physics, Hankuk University of Foreign Studies, Yongin-Si, Gyeonggi-Do, Korea (the Republic of)

EP-03. Impact of Joule heating on the Giant magnetoimpedance effect in Co-rich glass-coated microwires

A. Gonzalez Villegas[1, 2], P. A. Rodríguez Jiménez[1], M. Salaheldeen[1, 2, 3], V. Zhukova[1, 2, 4], A. Zhukov[5, 2, 4]
[1]Dept. Polymers and Advanced Materials: Physics, University of the Basque Country, EHU, San Sebastian, Spain, [2]Dept. Applied Physics, Escuela de Ingeniería de Gipuzkoa EIG, University of Basque Country, EHU, San Sebastian, Spain, [3]Phys. Dept., Faculty of Science, Sohag University, Sohag, Egypt, [4]EHU Quantum Center, University of the Basque Country, EHU,, San Sebastian, Spain, [5]Basque Foundation for Science, IKERBASQUE, Bilbao, Spain

EP-04. Tuning reversible magnetic behavior via exchange length control in nanocrystalline FINEMET wires

T. A. Ovari, M. Lostun, S. Corodeanu, H. Chiriac, N. Lupu
Department of Magnetic Materials and Devices, National Institute of Research and Development for Technical Physics, Iasi, Romania

EP-05. An Investigation of conductive noise suppression performance by magnetic loss in submicron-sized soft magnetic particles composite sheets for Ku band

K. Wakabayashi[1], S. Muroga[1], Y. Endo[1, 2]
[1]Graduate School of Engineering, Tohoku University, Sendai, Japan, [2]Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan

EP-06. RF absorption in Ba_2FeMoO_6 synthesized by microwave irradiation

L. Jiang, M. Marimuthu, M. Ramanathan
Physics, National University of Singapore, Singapore, Singapore

EP-07. Magnetic order in oxygen-deficient, compositionally-complex $BaIn_{1-x}M_xO_{3-\delta}$ (M = Fe, Co, Sn, Ti) perovskites

A. Stanionyte[1], L. Corredor[2, 3], A. Wolter[4], G. Perversi[5], A. Isaeva[3, 2, 1]
[1]Physics, University of Amsterdam, Amsterdam, Netherlands, [2]Physics, Technical University of Dortmund, Dortmund, Germany, [3]Research Center "Future Energy Materials and Systems", Dortmund, Germany, [4]Leibniz IFW Dresden, Dresden, Germany, [5]Chemistry, University of Maastricht, Maastricht, Netherlands

EP-08. How a Dual-Layer Core Reshapes Transient Current-Limiting Characteristics in Saturated-Core Fault Current Limiter？

J. L. Liu, J. Yuan, H. Zhou
Wuhan University, Wuhan, China

EP-09. Patterned Garnet Configurations with Bipolar Faraday Rotation for Magnet-free Optical Isolators

P. Liu[1], B. Stadler[2, 1]
[1]Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, Minnesota, United States, [2]Electrical and Computer Engineering, University of Minnesota, Minneapolis, Minnesota, United States

EP-10. Phase Separation and Magnetic Properties of FeCoNiCrAl-Based High-Entropy Alloys

S. Na, J. Yoo, N. J. Jones
Naval Surface Warfare Center Carderock Division, West Bethesda, Maryland, United States

EP-11. Effect of Scan Strategy on Grain Size, Magnetic Properties, and Recrystallization Behavior of Fe-4.5 wt.% Si Cores Fabricated by Laser Powder Bed Fusion

H. Lee, J. Ahn, K. Lee, J. Kim
Hanyang University, Ansan-si, Korea (the Republic of)

EP-12. Magnetocaloric Response and Critical Behavior in Cr-Substituted Spinel Ferrites

M. Islam, A. Hossain
Physics, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

EP-13LB. Cast-Around HV Cable: 36 kV Solid-State Transformers with Ferrite-Nanocrystalline Composite

I. R. Ellithy, M. Esguerra, R. Radhakrishnan
Magment Energy gmbH, Oberhaching, Bayern, Germany

EP-14LB. Origin of Mixed Anisotropies in Si/fcc-Permalloy and Si/a-Cobalt Thin Films

K. Kirti, B. Ghadai, A. Mishra, R. R, S. Mondal
Department of Physics, Shiv Nadar Institution of Eminence, Delhi NCR, India, Greater Noida, India

SESSION EQ: NEW APPLICATIONS AND OTHER EMERGING TOPICS II (POSTER SESSION)
Chair(s): M. Sekino, *The University of Tokyo, Tokyo, Tokyo, Japan*
Thursday, November 5, 2026
09:30 AM-12:30 PM
Coral 4

EQ-01. Effects of Spatial Filtering on MEG Source Localization Accuracy: A Phantom Study
K. Nakagawa, K. Tanaka
Graduate School of Science and Engineering, Tokyo Denki University, Hatoyama-cho, Japan

EQ-02. Nonlinear Neural Dynamics under Accelerated rTMS: Effects of Consecutive Sessions on Network Stability
C. Lee[1, 2], H. Chen[4, 1, 2], L. Ye[1, 2], H. Lin[3], C. Chang[4], T. Wu[1, 2]
[1]Graduate School of Materials Science, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan, [2]Taiwan SPIN Research Center, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan, [3]Department of Neurosurgery, Show Chwan Memorial Hospital, Changhua, Taiwan, [4]Intelligent Recognition Industry Service Research Center, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan

EQ-03. Electromagnetic Induction for UXO Detection in Highly Magnetic Backgrounds
A. Alling[1], J. Calimbas[1], J. Fujita[1], M. Matsuo[1], A. Ohta[1], A. Haroon[2]
[1]Electrical and Computer Engineering, University of Hawaii Manoa, Honolulu, Hawaii, United States, [2]Hawaii Institute of Geophysics and Planetology, SOEST, University of Hawaii Manoa, Honolulu, Hawaii, United States

EQ-04. Controlling Dipolar Interactions in Fe_3O_4@SiO_2 Nanohybrids for Magnetic Hyperthermia
M. Brollo, M. V. Guedes, J. R. Menezes, F. d. Ferreira, D. Muraca
Gleb Wataghin Institute of Physics (IFGW), State University of Campinas (UNICAMP), Campinas, Brazil

EQ-05. Multimodal Predictors of Resting Motor Threshold and Corticomotor Excitability in Healthy Adults
M. Paslar[1], T. J. Taylor[1], R. Detore[1], C. J. Lewis[6], S. S. Achanta[7], M. Fernandes[5], S. Sabaysachi[2], W. Lohr[1], L. Ma[4], J. Atulasimha[2], R. L. Hadimani[3, 1], C. L. Peterson[1]
[1]Biomedical Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, [2]Computer Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, [3]Mechanical and Nuclear Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, [4]School of Medicine Psychiatry, Virginia Commonwealth University, Richmond, Virginia, United States, [5]School of Medicine, Virginia Commonwealth University, Richmond, Virginia, United States, [6]School of Medicine, UMass Chan Medical School, Worcester, Massachusetts, United States, [7]Computer Science, Virginia Commonwealth University, Richmond, Virginia, United States

EQ-06. Antigen evaluation utilizing the dispersibility of magnetic nanoparticles
S. Yabukami, S. Tohtake, T. Murayama
Tohoku University, Sendai, Japan

EQ-07. Optimal Design of Inner and Outer Rotor Slotless PMSM for Robotics Based on Outer Diameter to Stack Length Ratio
H. Hong, H. Koo, C. Jo, W. Park, J. Lee
Department of Electrical Engineering, Hanyang University, Seoul, Korea (the Republic of)

EQ-08. Design of Hybrid Consequent Pole PMSM for Low Torque Ripple
C. Jo[1], J. Lee[1], H. Koo[1], W. Park[1], S. Kim[2]
[1]Electrical Engineering, Hanyang university, Seoul, Korea (the Democratic People's Republic of), [2]Korea Testing Certification Institute, Gunpo, Korea (the Democratic People's Republic of)

EQ-09. Beyond Conventional Magnetic Hyperthermia: Spatial Control via Superimposed AC/DC Fields in Nanoparticle Superstructures

N. Holt, C. Westfall, A. S. Poulo, M. Khandaker, T. Lamichhane
Engineering & Physics, University of Central Oklahoma, Edmond, Oklahoma, United States

EQ-10. Design and Full-Scale Experimental Verification of Inter-Floor Noise Suppression using Permanent Magnet Repulsion

J. Kim[1], Y. Chong[2], W. Lee[3], J. Han[3], J. Oh[3], H. Cho[1, 2]
[1]Electric., Electron. & Comm. Engineering Education, Chungnam National University, Daejeon, Korea (the Republic of), [2]Department of Convergence System Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [3]Floor Impact Noise Laboratory, SAMSUNG C&T, Yongin city , Gyeonggi-do, Korea (the Republic of)

EQ-11. Enhancement of Water Electrolysis Efficiency via Optimized Lorentz Force Distribution using Halbach Array Configurations

Y. Chen[2], Y. Li[1], C. Chen[2]
[1]Department of Mechanical and Aerospace Engineering, National Defense University, Taoyuan, Taiwan, [2]Department of Mechanical Engineering, National Yang Ming Chiao Tung University, Taoyuan, Taiwan

EQ-12. A Stepwise Lightweight Design for a UAV Axial-Flux Permanent-Magnet Motor

C. Li[1], J. Yu[1], S. Liu[2], F. Zhao[1], Y. Luo[3]
[1]Harbin Institute of Technology, Shenzhen, Shenzhen, China, [2]Center for Adaptive System Engineering, ShanghaiTech University, Shanghai, China, [3]School of Electrical and Electronic Engineering, Huazhong University of Science and Technology, Wuhan, China

EQ-13. High-Speed Yield Force Falloff in Magnetorheological Flow-Mode Devices: From Rheometers to Building-Scale Seismic Dampers

S. G. Sherman, Y. T. Choi, N. M. Wereley
Department of Aerospace Engineering, University of Maryland, College Park, Maryland, United States

EQ-14. Electronic and Magnetic Interaction Between Pt and Cu Species in ZSM-5 via Ion Exchange and Its Impact on Catalytic Performance

K. Baek
Seoul National University, Hwasungsi, Korea (the Republic of)

EQ-15LB. Analysis of the Relationship Between Muscle Contractions Induced by Electrical and Magnetic Stimulation and Breath VOC Changes in Rats

R. Kaneda, Y. HE, H. Yamahara, G. Ogawa, S. Funatani, I. Mimura, H. Nishi, H. Tabata, M. Nangaku, M. Sekino
The University of Tokyo, Tokyo, Japan

EQ-16LB. Minor-Loop Programming of Sr-Hexaferrite Remanence for Nonvolatile Multilevel Control of Plasma Streamer Topology

C. V. Vishwesh[1], G. Tenasini[2], Y. Zhang[1]
[1]Unionville High School, Markham, Ontario, Canada, [2]CERN, Geneva, Geneva, Switzerland

SESSION ER: BIOMAGNETISM AND BIOMEDICAL APPLICATIONS II (POSTER SESSION)
Chair(s): J. Gomez-Pastora, *Texas Tech University, Lubbock, Texas, United States*
Thursday, November 5, 2026
09:30 AM-12:30 PM
Coral 4

ER-01. Quantitative Evaluation of Selective Attention during a Dichotic Listening Test
Y. Yamaguchi, K. Tanaka
Graduate School of Science and Engineering, Tokyo Denki University, Hatoyama-cho, Japan

ER-02. Magnetic Resonance-Based Quantification of Iron in Tumor Models Using Non-Contrast MRI
K. Rova[1], S. Rodriguez Caballero[1], K. Paz Gonzalez[1], M. Molinares Ponce[2], B. Rezaei[3], C. Xu[2], K. Wu[3], J. Gomez-Pastora[1]
[1]Chemical Engineering, Texas Tech University, Lubbock, Texas, United States, [2]Industrial, Manufacturing & Systems Engineering, Texas Tech University, Lubbock, Texas, United States, [3]Electrical and Computer Engineering, Texas Tech University, Lubbock, Texas, United States

ER-03. Development of a novel Ferromagnetic Suppression Coil to Increase Focality in TMS Procedures on Small Animals
T. V. Atalugama, W. Lohr, R. L. Hadimani
Mechanical and Nuclear Engineering, Virginia Commonwealth University, Richmond, Virginia, United States

ER-04. Enhancement of High-Frequency Output in Electromagnetic Bone Conduction Devices Using Optimized Cantilever and Magnetic Circuits
M. Ezaka[1], W. Kitagawa[1], M. Nakashima[2], R. Masuda[2]
[1]Electrical and Mechanical Engineering, Nagoya Institute of Technology, Nagoya, Aichi, Japan, [2]SANKO MOLD CO., LTD., Nagoya, Aichi, Japan

ER-05. Structure-Magnetic Property Relationships in Size-Controlled Cubic Magnetic Nanoparticles for Dual MRI/MPI Applications
B. Rezaei[1], S. Mostufa[1], H. Wang[1], M. Shahriar[2], M. Molinares Ponce[2], C. Xu[2], K. Wu[3]
[1]Department of Electrical and Computer Engineering, Texas Tech University, Lubbock, Texas, United States, [2]Department of Industrial, Manufacturing, and Systems Engineering, Texas Tech University, Lubbock, Texas, United States, [3]University of South Florida, Tampa, Florida, United States

ER-06. Evaluation of Commercial Iron Oxide Nanoparticles for Dual-Functional Magnetic Particle Imaging and Magnetic Hyperthermia
S. Mostufa[1], H. Wang[1], B. Rezaei[1], M. Shahriar[2], C. Xu[2], K. Wu[3]
[1]Department of Electrical and Computer Engineering, Texas Tech University, Lubbock, Texas, United States, [2]Department of Industrial, Manufacturing, and Systems Engineering, Texas Tech University, Lubbock, Texas, United States, [3]University of South Florida, Tampa, Florida, United States

ER-07. Electromagnetically Induced Endolymph Flow in the Vestibular System
Y. Lee[2], J. Kim[2], S. Jung[2], H. Song[1], S. Oh[1], I. Na[1], J. Jang[1], K. Noh[1], Y. Park[1], Y. Lee[1], P. Chanwook[1], J. Hong[1]
[1]Control and Instrumentation Engineering, Korea University, Sejong, Korea (the Republic of), [2]BK21 FOUR Smart Mobility Education and Research Team, Korea University, Sejong, Korea (the Republic of)

ER-08. Cell differentiation of mesenchymal stem cells mediated by the presence of core shell $CoFe_2O_4$@$BaTiO_3$ nanoparticles
H. Chiriac, A. Minuti, D. Gherca, N. Lupu
National Institute of Research and Development for Technical Physics, Iasi, Romania

ER-09. Magnetic Response of Multiphase Gd/Gd_2O_3 Nanoparticles: Implications for Relaxation Behavior

N. Gunduz Akdogan[1, 2], B. Gungordu[3], C. Bagci[3], O. Akdogan[3, 2]
[1]Piri Reis University, Istanbul, Turkey, [2]NANOTerial Technology, Istanbul, Turkey, [3]Bahcesehir University, Istanbul, Turkey

ER-10. Fabrication of Luminescent Self-Regulating Magnetic Hyperthermia Core-Shell Nanoparticles of Gadolinium Oxide Shell over Gadolinium Silicide Core

S. Smith[1], S. B. Naranjo[1], J. R. Marin[1], Y. Mudryk[2], A. Kumar[2], R. Kuchi[2], R. L. Hadimani[1]
[1]Virginia Commonwealth University, Richmond, Virginia, United States, [2]Ames National Laboratory, Ames, Iowa, United States

ER-11. Wireless temperature measurement by mixed-frequency magnetic fields on various viscosity conditions for magnetic hyperthermia

A. Kuwahata, R. Shinohara, S. Yabukami
Tohoku University, Sendai, Japan

ER-12. Induced Magnetic Anisotropy of Magnetic Nanoparticles in Mouse Lymph Nodes

A. Kuwahata, Y. Kamijima, T. Shimano, A. Sukhbaatar, T. Kodama, S. Saito, S. Yabukami
Tohoku University, Sendai, Japan

ER-13. Magnetoencephalographic Correlates of Selective Attention during a Dichotic Listening Task Using Meaningless Words

K. Miyajima, K. Tanaka
Gladuate School of Science and Engineering, Tokyo Denki University, Hotoyama-cho, Japan

ER-14. Remote Induction of Lung Cancer Cell Death via Magnetically Responsive Nanocarriers and Targeted Drug Release

A. A. Abdou[1, 2], M. Elabbasi[1, 2], M. A. Garcia[1], S. Dasari[3], A. El-Gendy[1]
[1]Physics, University of Texas at El Paso, El Paso, Texas, United States, [2]Environmental Science and Engineering, University of Texas at El Paso, El Paso, Texas, United States, [3]Metallurgical, Materials and Biomedical Engineering, University of Texas at El Paso, El Paso, Texas, United States

ER-15. Fe_xC_y Nanoparticles and their Potential for NP-mediated AMF Treatment in Liver HEP-G2 Cancerous Cell Line

H. V. Kapetan[1, 3], M. Elabbasi[1, 2], M. A. Garcia[1], R. Morales[1], S. Dasari[4], A. El-Gendy[1, 2]
[1]Physics, University of Texas at El Paso, El Paso, Texas, United States, [2]Environmental Science and Engineering, University of Texas at El Paso, El Paso, Texas, United States, [3]Biological Sciences, University of Texas at El Paso, El Paso, Texas, United States, [4]Metallurgical, Materials and Biomedical Engineering, University of Texas at El Paso, El Paso, Texas, United States

ZA: SPECIAL SESSION: THE MAGNETIC COMPASS OF LIFE

Chair(s): H. Josef Hug, *University of Basel*
Thursday, November 5, 2026
12:30 PM-01:45 PM
Coral 5

Supported by

SESSION FA: INTEGRATED MAGNETICS FOR POWER DISTRIBUTION IN NEXT-GEN CHIPS AND DEVICES
Chair(s): S. Oberdick, *National Institute of Standards and Technology, Boulder, Colorado, United States*
Thursday, November 5, 2026
02:00 PM-05:30 PM
Coral 3

02:00 PM-02:36 PM
FA-01. The PwrSOC Vision: Performance Needs and Knowledge Gaps for Inductors and Transformers in Power Supplies On Chip
A. Hanson
University of Texas at Austin, Austin, Texas, United States

02:36 PM-02:48 PM
FA-02. Iron based nanocomposites for superparamagnetic inductor cores
E. F. Scott, R. Delaney, T. Della Cerra, M. Landi, S. Gilbert, T. C. Monson
Sandia National Labs, Albuquerque, New Mexico, United States

02:48 PM-03:00 PM
FA-03. Engineering Low Permeability in Zr-CoFeB Thin Films for High-Frequency Integrated Magnetics
M. Mancias A.[1], N. M. Bruno[2], A. Leary[2], K. Chinnathambi[3], R. D. Noebe[2], K. Srinivasan[1]
[1]Electrical and Computer Engineering, Boise State University, Boise, Idaho, United States, [2]Materials and Structures Division, NASA Glenn Research Center, Cleveland, Ohio, United States, [3]Boise State Center for Materials Characterization, Boise State University, Boise, Idaho, United States

03:00 PM-03:36 PM
FA-04. Heterogeneously Integrated Magnetic Technologies to Power the AI Revolution
C. O'Mathuna[1, 2]
[1]Tyndall National Institute, Cork, Ireland, [2]University College Cork, Cork, Ireland

03:36 PM-03:48 PM
FA-05. On–Silicon Coupled–Stripline Micro–Inductors Featuring Laminated CoZrTa/AlN Magnetic Cores and Vias for High-Frequency Power-Supply-on-Chip
A. Tanwar, A. Masood, L. Ye, I. Efimenkov, C. O'Mathuna, R. Sai, S. Khan
Tyndall National Institute, Cork, Cork, Ireland

03:48 PM-04:15 PM
Break

04:15 PM-04:51 PM
FA-07. An Electroplating Path to On-Chip MHz Magnetics for Vertical Power Delivery
T. Liakopoulos, M. Khodadadi, K. Ahmadi
Eneira, Hillsborough, New Jersey, United States

04:51 PM-05:03 PM
FA-08. Effect of magnetic viscosity on iron loss under triangular waves via precise iron loss measurements
T. Taniguchi[1], Y. Uehara[2], S. Okamoto[1, 3, 4]
[1]Tohoku University, Sendai, Japan, [2]Magnetic Device Laboratory, Kawasaki, Japan, [3]National Institute for Materials Science, Tsukuba, Japan, [4]Center for Science and Innovation in Spintronics, Sendai, Japan

05:03 PM-05:15 PM
FA-09. Spinwave linewidth measurement ΔH_k of high-permittivity garnet ferrites
M. Legay[1], R. Lebourgeois[2], R. Mansour[2], D. Caban-Chastas[1], V. Laur[3]
[1]Thales DMS, Elancourt, France, [2]Thales Research and Technology, Palaiseau, France, [3]Lab-Sticc/University of Brest, Brest, France

SESSION FB: NEW TRENDS IN MAGNONICS: ENGINEERED NONEQUILIBRIUM DYNAMICS IN MAGNETIC SYSTEMS
Chair(s): S. Wintz, *Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany*
Thursday, November 5, 2026
02:00 PM-05:30 PM
Coral 5

02:00 PM-02:36 PM
FB-01. Squeezing thermal fluctuation of magnons
T. Hioki[1, 2, 3], K. Tojo[1], M. Elyasi[2], S. Horibe[1], K. Hoshi[2], T. Makiuchi[3], G. Bauer[2, 4, 5], E. Saitoh[1, 3, 2]
[1]Department of Applied Physics, The University of Tokyo, Tokyo, Japan, [2]Advanced Institute for Materials Research, Tohoku University, Tokyo, Japan, [3]Center for Emergent Matter Science, RIKEN, Wako, Japan, [4]Institute for Materials Research, Tohoku University, Sendai, Japan, [5]Kavli Institute for Theoretical Science, University of Chinese Academy of Science, Beijing, Japan

02:36 PM-02:48 PM
FB-02. Magnonic spontaneous oscillation induced by parametric pumping [1]
Y. Li[1], C. Kiehl[2], J. Lim[3], C. Abbott[4], P. K. Pal[1, 3], A. Szymczak[1, 3], J. Li[5], R. Divan[6], C. L. Chang[5], C. Phatak[1], D. A. Bozhko[4], A. Hoffmann[3], V. Novosad[1]
[1]Materials Science Division, Argonne National Laboratory, Lemont, Illinois, United States, [2]Carthage College, Kenosha, Wisconsin, United States, [3]Materials Science Engineering, University of Illinois at Urbana Champaign, Urbana, Illinois, United States, [4]Department of Physics and Energy Science, University of Colorado Colorado Springs, Colorado Spring, Colorado, United States, [5]High Energy Physics, Argonne National Laboratory, Lemont, Illinois, United States, [6]Center for Nanoscale Materials, Argonne National Laboratory, Lemont, Illinois, United States

02:48 PM-03:00 PM
FB-03. Nonlinear Conversion of Coherent Magnonics in Canted Antiferromagnets
R. V. Mikhaylovskiy
Physics, Lancaster University, Lancaster, United Kingdom

03:00 PM-03:36 PM
FB-04. Self-induced Floquet magnon states
C. Heins[1, 2], L. Körber[1, 3], J. Kim[4], T. Devolder[4], J. Mentink[3], A. Kákay[1], J. Fassbender[1], K. Schultheiss[1], H. Schultheiss[1]
[1]Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany, [2]TU Dresden, Dresden, Germany, [3]Radboud University, Nijmegen, Netherlands, [4]Centre de Nanosciences et de Nanotechnologies, Université Paris-Saclay, Paris, France

03:36 PM-03:48 PM
FB-05. Observation of a nonlinear magnetization soliton
O. Wojewoda[1], S. Mayr[2, 3], M. J. Gross[1], J. Klima[4], J. Panda[4], J. Krcma[4], J. Holobradek[4], K. Davidkova[5], A. Chumak[5], R. V. Verba[6], P. Pirro[7], M. Weigand[8], S. Finizio[2], M. Lindner[9], C. Dubs[9], Q. Wang[10], S. Wintz[8], C. A. Ross[1], M. Urbánek[4]
[1]MIT, Cambridge, Massachusetts, United States, [2]Paul Scherrer Institut, Villigen, Switzerland, [3]ETH, Zurich, Switzerland, [4]CEITEC, Brno, Czechia, [5]University of Vienna, Vienna, Austria, [6]Institute of Magnetism, Kyiv, Ukraine, [7]Fachbereich Physik and Landesforschungszentrum OPTIMAS, Kaiserslautern, Germany, [8]Helmholtz-Zentrum-Berlin fur Materialien und Energie, Berlin, Germany, [9]INNOVENT e.V. Technologieentwicklung, Jena, Germany, [10]Huazhong University of Science and Technology, Wuhan, China

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM
FB-06. On-chip Dicke-type magnon polaritons in the ultrastrong coupling regime via spatially separated nanomagnets
S. Yoshii[1, 2], M. Müller[3], R. Ohshima[1], Y. Ando[4], M. Althammer[3], H. Huebl[3], M. Shiraishi[1]
[1]Department of Electronic Science and Engineering, Kyoto University, Kyoto, Japan, [2]Imperial College London, London, United Kingdom, [3]Walther-Meißner-Institute, Munich, Germany, [4]Osaka Metropolitan University, Osaka, Japan

04:27 PM-05:03 PM
FB-07. A Universal Inverse-Design Magnonic Device
A. Chumak, F. Vilsmeier
Faculty of Physics, University of Vienna, Vienna, Austria

05:03 PM-05:15 PM
FB-08. Enabling magnetoelectric spin orbit memory with antiferromagnetic magnon current
S. Husain[1, 2], R. Ramesh[1, 2]
[1]Department of Materials Science and Engineering, University of California Berkeley, Berkeley, California, United States, [2]Department of Physics, University of California Berkeley, Berkeley, California, United States

SESSION FC: NEW APPLICATIONS AND OTHER EMERGING TOPICS I
Co-Chair(s): K. Wu, *Department of Physics, University of South Florida, Tampa, Florida, United States* and A. El-Gendy, *Physics, The University of Texas at El Paso, El Paso, Texas, United States*
Thursday, November 5, 2026
02:00 PM-05:30 PM
Coral 1

02:00 PM-02:12 PM
FC-01. Shape- and Cation-Engineered Ferrite Nanoparticles for MRI-Guided Magnetic Hyperthermia in Ovarian Cancer Tumor-Mimicking Phantoms
B. Rezaei[1], K. Wu[2]
[1]Department of Electrical and Computer Engineering, Texas Tech University, Lubbock, Texas, United States, [2]University of South Florida, Tampa, Florida, United States

02:12 PM-02:24 PM
FC-02. Magnetic MEMS Devices Based on NdFeB Micromagnets: Micro-Speaker and Micro-Mirror Design
P. Malagò, S. Lumetti, L. G. Enger, M. Ortner, F. S. Slanovc
Silicon Austria Labs GmbH, Villach, Austria

02:24 PM-02:36 PM
FC-03. Development of Magnetic Prussian Blue Composites for Radioactive Material Adsorption and Magnetic Recovery
H. Ok[1, 3], M. Im[2], K. Lee[1, 3]
[1]Materials Science and Engineering, Ulsan National Institute of Science and Technology, Ulsan, Ulju-Gun, Korea (the Republic of), [2]Center for X-ray Optics,, Lawrence Berkeley National Laboratory, Berkeley, California, United States, [3]Blue Magnet Co., Ltd., Ulsan, Ulju-Gun, Korea (the Republic of)

02:36 PM-02:48 PM
FC-04. Plastic Sorting Using Magnetic Levitation
E. L. Correa, J. Woodcock, A. Davis, C. Dennis, A. Kotula
NIST, Gaithersburg, Maryland, United States

02:48 PM-03:00 PM
FC-05. The Secret Life of (Magnetic) Bees
D. A. Gilbert[1], A. Murray[1], L. Russo[1], C. Allen[1], C. S. Jorgensen[1], L. Quigley[1], C. C. Buchanan[1], M. Winklhofer[2], S. G. Brady[3], L. Packer[4]
[1]University of Tennessee, Knoxville, Tennessee, United States, [2]University of Oldenburg, Oldenburg, Germany, [3]Smithsonian, Washington DC, District of Columbia, United States, [4]York University, Toronto, Ontario, Canada

03:00 PM-03:12 PM
FC-06. Personalized Coil Design for Transcranial Magnetic Stimulation on Subject-Specific Head Models
H. Kim[2], A. Iino[2], M. Fushimi[1], M. Sekino[2]
[1]Faculty of Science and Technology Department of Applied Physics and Physico-Informatics, Keio University, Tokyo, Japan, [2]Department of Bioengineering, The University of Tokyo, Tokyo, Japan

03:12 PM-03:24 PM
FC-07. Magnetic demonstrations to establish a sense of wonder
N. J. Jones[1], S. Wolff[2]
[1]Physical Metallurgy and Fire Performance Branch, Naval Surface Warfare Center, Carderock Division, Bethesda, Maryland, United States, [2]Mechanical Engineering, The Ohio State University, Columbus, Ohio, United States

03:24 PM-03:36 PM
FC-08. The Attraction of Magnets: Empowering Girls Through Hands-On Magnetism Activities
F. Béron
Instituto de Física Gleb Wataghin, Universidade Estadual de Campinas, Campinas, São Paulo, Brazil

03:36 PM-03:48 PM
FC-09. Accelerate the scientific method with agile design of advanced magnetics
T. Costello
CMR Inc, Huntsville, Alabama, United States

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM
FC-10. Magnetic Separation of Cathode Materials from Lithium-Ion Batteries
N. Carlstedt, P. Andrei
Department of Electrical and Computer Engineering, FAMU-FSU College of Engineering, Tallahassee, Florida, United States

04:27 PM-04:39 PM
FC-11. Magnetically enhanced mass transport for waste-to-resource conversion processes
R. Hernandez[1], L. Bertel Bermejo[1], J. Abarca[2], C. González-Fernández[2], G. Díaz-Sainz[2], J. Gomez-Pastora[1]
[1]Chemical Engineering, Texas Tech University, Lubbock, Texas, United States, [2]Ingenierías Química y Biomolecular, Universidad de Cantabria, Santander, Cantabria, Spain

04:39 PM-04:51 PM
FC-12. Selective Enrichment of Phosphors from Crushed Fluorescent Lights Using High Gradient Magnetic Separation
D. Rogers, P. Wang, P. Andrei
Florida State University, Tallahassee, Florida, United States

04:51 PM-05:03 PM
FC-13. Human-Scale Rotating Magnetic Field Delivery with Permanent Magnets Under Anatomic and Robotic Constraints
T. Le, H. Ceylan
Mayo Clinic, Scottsdale, Arizona, United States

05:03 PM-05:15 PM
FC-15. Sub-mm NdFeB Micromagnets Fabricated by Ultrashort Pulsed Laser Micromachining: Enabling Magnetic MEMS and Quantum Applications
S. Lumetti, P. Malagò, P. Smaliukas, L. G. Enger, J. Bardong, M. Montagnese
Silicon Austria Labs GmbH, Villach, Austria

SESSION FD: UNCONVENTIONAL COMPUTING AND MAGNETIC MEMORIES II
Chair(s): N. A. Natekar, *Western Digital, San Jose, California, United States*
Thursday, November 5, 2026
02:00 PM-05:30 PM
Coral 2

02:00 PM-02:36 PM
FD-01. 3D domain wall motion memory with artificial ferromagnet
T. Ono[1, 2]
[1]Kyoto University, Uji, Japan, [2]Tohoku University, Sendai, Japan

02:36 PM-03:12 PM
FD-02. Counting magnons: How to measure Heisenberg exchange in ultrathin magnetic systems
C. Swindells[1, 2]
[1]Associate, Applied Physics Division, NIST, Boulder, Colorado, United States, [2]Department of Electrical Engineering, CU Denver, Denver, Colorado, United States

03:12 PM-03:24 PM
FD-03. Multi-Weight Wafer-Scale Spin Orbit Torque Magnetic Tunnel Junction Synapses
N. Zogbi[1, 2], D. Giuliano[3], V. Kateel[3], V. Nguyen[3], J. Chatterjee[3], A. Palomino[3], R. Carpenter[3], S. Rao[3], J. Incorvia[1, 2]
[1]Chandra Family Department of Electrical and Computer Engineering, University of Texas at Austin, Austin, Texas, United States, [2]Microelectronics Research Center, University of Texas at Austin, Austin, Texas, United States, [3]imec, Leuven, Belgium

03:24 PM-03:36 PM
FD-04. Robotic Navigation Using Spin-Wave-Based Neuromorphic Hardware
J. Zohar[1], D. Pinna[1], G. van der Laan[2], T. Hesjedal[1], C. Safeer[1]
[1]Department of Physics, University of Oxford, Oxford, United Kingdom, [2]Diamond Light Source, Harwell Science Campus, Didcot, United Kingdom

03:36 PM-03:48 PM
FD-05. Spin Diodes Neural Chip for Low-Power RF Edge Spectrum Classification
Y. Wei, A. Begue, T. Rageau, F. A. Mizrahi, D. Sanz Hernandez, J. Grollier
CNRS, Thales, Univ. Paris-Saclay, Laboratoire Albert Fert, Palaiseau, France

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM

FD-06. Enriched Coupling Control via Correlated Phase Engineering in $La_{0.67}Sr_{0.33}MnO_3$ Oscillatory Neural Networks

H. Chhabra[1, 2], T. Banerjee[1, 2]
[1]University of Groningen, Groningen Cognitive System and Materials Centre, Groningen, Groningen, Netherlands, [2]University of Groningen, Zernike Institute for Advanced Materials, Groningen, Groningen, Netherlands

04:27 PM-04:39 PM

FD-07. Effects of Dimensional Scaling on Switching Characteristics of SOT–MRAM

V. Kateel, S. Van Beek, J. Urrestarazu Larranaga, M. Gama Monteiro, A. Das, A. Palomino Lopez, B. Coester, G. Talmelli, V. Nguyen, R. Carpenter, G. Sankar Kar, S. Rao
imec, Leuven, Belgium

04:39 PM-04:51 PM

FD-08. Propagating spin waves in synthetic antiferromagnets provide distinct memory properties in spin-wave-based reservoir computing

T. Shinkai[1], S. Iihama[1], K. Hayashi[1], S. Mizukami[2, 3], N. Yoshinaga[4], T. Moriyama[1]
[1]Department of Materials Physics, Nagoya University, Nagoya, Aichi, Japan, [2]WPI Advanced Institute for Materials Research (AIMR), Tohoku University, Sendai, Miyagi, Japan, [3]Center for Science and Innovation in Spintronics (CSIS), Tohoku University, Sendai, Miyagi, Japan, [4]Department of Complex and Intelligent Systems, Future University Hakodate, Hakodate, Hokkaido, Japan

04:51 PM-05:03 PM

FD-09. Skyrmion-based Spintronic Reservoir Computing for Human Action Classification in Videos

S. Sabyasachi[1], M. Alam[1], M. Rajib[1], J. Atulasimha[1, 2]
[1]Mechanical & Nuclear Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, [2]Electrical & Computer Engineering, Virginia Commonwealth University, Richmond, Virginia, United States

05:03 PM-05:15 PM

FD-10. Competing Spin Hall Effects Enable Field-free Stochastic Switching for True Random Number Generation

J. Hsu[1], C. Hsu[2], Y. Lin[2], W. Chang[3], Y. Tseng[2]
[1]Industry Academia Innovation School, National Yang Ming Chiao Tung University, Hsinchu, None Selected, Taiwan, [2]Materials Science and Engineering, National Yang Ming Chiao Tung University, Hsinchu, None Selected, Taiwan, [3]Powerchips Semiconductor Manufacturing Corporation, Hsinchu, None Selected, Taiwan

05:15 PM-05:27 PM

FD-11. Solving combinatorial optimization problems using Landau-Lifshitz–Gilbert spin dynamics

D. Chen[1], B. H. Chiang[1], D. Sels[2, 3], F. Morone[1], A. D. Kent[1]
[1]Physics, New York University, New York, New York, United States, [2]Physics, Boston University, Boston, Massachusetts, United States, [3]Center for Computational Quantum Physics, Flatiron Institute, New York, New York, United States

SESSION FE: TOPOLOGICAL MATERIALS, CHIRAL MAGNETS AND CORRELATED SYSTEMS
Chair(s): R. He, *The University of Texas at Arlington, Arlington, Texas, United States*
Thursday, November 5, 2026
02:00 PM-05:30 PM
South Pacific 1/2

02:00 PM-02:36 PM
FE-01. Magnetic field-reentrant superconductivity in infinite-layer nickelates
K. Rubi
National High Magnetic Field Laboratory, Los Alamos National Laboratory, Los Alamos, New Mexico, United States

02:36 PM-02:48 PM
FE-02. One-dimensional magnetic soliton layers in a cubic chiral magnet
G. Causer[1, 2], M. Azhar[4], T. Hesjedal[5], M. Garst[3], C. Pfleiderer[2]
[1]European Spallation Source, Lund, Sweden, [2]Technical University of Munich, Munich, Germany, [3]Karlsruhe Institute of Technology, Karlsruhe, Germany, [4]University of Duisburg-Essen, Duisburg, Germany, [5]Oxford University, Oxford, United Kingdom

02:48 PM-03:00 PM
FE-03. Deciphering the new magnetic state, "B-Phase", found in MnSi at Low Temperatures
M. Pardo-Sainz[1, 3], Y. Kousaka[3], M. Mito[4], K. Ohishi[5], K. Kojima[6], V. Laliena[2], J. Campo[1]
[1]Spanish National Research Council (CSIC), Zaragoza, Spain, [2]University of Zaragoza, Zaragoza, Spain, [3]Osaka Metropolitan University, Sakai, Japan, [4]Kyushu Institute of Technology, Kita-Kyushu, Japan, [5]CROSS, Tokai, Japan, [6]TRIUMF, Vancouver, British Columbia, Canada

03:00 PM-03:12 PM
FE-04. Mn enrichment in candidate magnetic topological insulators Mn-Sb(Ge)-Te: when more becomes less
E. Kochetkova[1], T. Groot[1], M. Tardieux[1], L. Corredor[2, 3], I. Aguilera[1], A. Isaeva[2, 3, 1]
[1]Physics, University of Amsterdam, Amsterdam, Netherlands, [2]Physics, Technical University of Dortmund, Dortmund, Germany, [3]Research Center "Future Energy Materials and Systems", Dortmund, Germany

03:12 PM-03:24 PM
FE-06. Physical properties and correlated electron behavior of Kagome metal $Cu_3V_2Sb_4$
M. Liu[1], C. Liu[1], H. Wu[2, 1], X. Zhou[1], D. Liu[1], S. Li[1], Z. Shi[1]
[1]Southeast University, Nanjing, Jiangsu, China, [2]Jiangsu University of Science and Technology, Zhenjiang, China

03:24 PM-03:36 PM
FE-07. Experimental investigation of the third-order nonlinear Hall effect in ferromagnetic Weyl semimetal $Co_3Sn_2S_2$ thin films
S. Kazami[1], J. Han[1], T. Uchimura[1], K. Fujiwara[2], K. Nihei[1], S. Kanai[1], A. Tsukazaki[3, 1], S. Fukami[1]
[1]Tohoku University, Sendai, Japan, [2]Rikkyo University, Tokyo, Japan, [3]The University of Tokyo, Tokyo, Japan

03:36 PM-03:48 PM
FE-09. Avoiding the Spin Glass: Random Singlet Physics in the Disordered S = 1/2 Pyrochlore Antiferromagnet $NaCdCu_2F_7$
A. Kancko[1], H. Sakai[2], C. A. Correa[3], P. Proschek[1], J. Prokleška[1], T. Haidamak[1], M. Uhlarz[4], A. Berlie[5], Y. Tokunaga[2], R. H. Colman[1]
[1]Department of Condensed Matter Physics, Faculty of Mathematics and Physics, Charles University in Prague, Prague, Czechia, [2]Advanced Science Research Center, Japan Atomic Energy Agency, Tokai, Ibaraki, Japan, [3]Institute of Physics, Czech Academy of Sciences, Prague, Czechia, [4]Hochfeld-Magnetlabor Dresden (HLD-EMFL), Helmholtz-Zentrum Dresden-Rossendorf (HZDR), Dresden - Rossendorf, Germany, [5]ISIS Neutron and Muon Source, Rutherford Appleton Laboratory, Science and Technology Facilities Council, Chilton, Oxfordshire, United Kingdom

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM
FE-10. Harmonic helimagnetism and competing multi-Q orders in the inversion broken Weyl semimetal GdAlSi
R. Nakano[1], R. Yamada[1], J. Bouaziz[2], M. Colling[3, 4], M. Gen[5, 6], K. Shoriki[1], Y. Okamura[1], A. Kikkawa[5], R. Misawa[1], P. R. Baral[1], S. Kitou[7], Y. Nakamura[8], H. Ohsumi[9], Y. Tanaka[9], H. Sagayama[10], H. Nakao[10], Y. Ishihara[1], K. Gautam[5], O. Fabelo[11], Y. Taguchi[5], Y. Takahashi[1, 5], M. Tokunaga[5, 6], T. Arima[5, 7], Y. Tokura[1, 5, 12], R. Arita[5, 13], J. Masell[4, 5], S. Hayami[14], M. Hirschberger[1, 5]
[1]Department of Applied Physics and Quantum-Phase Electronics Center, The University of Tokyo, Tokyo, Japan, [2]Research Center for Advanced Science and Technology, The University of Tokyo, Tokyo, Japan, [3]Department of Materials Science and Engineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway, [4]Institute of Theoretical Solid State Physics, Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, [5]RIKEN Center for Emergent Matter Science (CEMS), Saitama, Japan, [6]Institute for Solid State Physics, The University of Tokyo, Kashiwa, Japan, [7]Department of Advanced Materials Science, The University of Tokyo, Tokyo, Japan, [8]Japan Synchrotron Radiation Research Institute (JASRI), Hyogo, Japan, [9]RIKEN SPring-8 Center, Hyogo, Japan, [10]Institute of Materials Structure Science, High Energy Accelerator Research Organization, Ibaraki, Japan, [11]Institut Laue-Langevin, Grenoble, France, [12]Tokyo College, The University of Tokyo, Tokyo, Japan, [13]Department of Physics, Tokyo, Japan, [14]Graduate School of Science, Hokkaido University, Sapporo, Japan

04:27 PM-04:39 PM
FE-11. Real-time detection of critical slowing-down in ultrafast quenches of superconductivity
G. Nava Antonio, C. Ciccarelli
University of Cambridge, Cambridge, United Kingdom

04:39 PM-04:51 PM
FE-13. Quantitative imaging of magnetic domains in correlated materials by REXS
C. Mazzoli
Brookhaven National Lab, Upton, New York, United States

SESSION FF: MAGNETORESISTANCE AND SPIN TRANSPORT
Chair(s): S. Liu, *NIST, Broomfield, Colorado, United States*
Thursday, November 5, 2026
02:00 PM-05:30 PM
South Pacific 3/4

02:00 PM-02:12 PM
FF-01. Magneto-transport properties of Fe_3GeTe_2 and Fe_3GaTe_2: comparison of current along c-axis and ab-plane
C. Chang[1], N. Hai[1], R. Jain[1], L. Tsai[1], R. Jhang[1], R. Sankar[1], J. Liang[2], S. Lee[1]
[1]Institute of Physics, Academia Sinica, Taipei, Nangang, Taiwan, [2]Department of Physics, Fu Jen Catholic University, Taipei, Taiwan

02:12 PM-02:24 PM
FF-02. Three-order-of-magnitude enhancement in charge/spin conversion efficiency using a Schottky-barrier-free Fe/Mg/SiN/*n*-Si junction with high-resistivity non-degenerate silicon
S. Sato[1, 2], M. Tanaka[1, 2], R. Nakane[1, 3]
[1]Dept. of Electrical Eng. and Information Systems, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, [2]Center for Spintronics Research Network (CSRN), The University of Tokyo, Bunkyo-ku, Tokyo, Japan, [3]Systems Design Lab (d.lab), The University of Tokyo, Bunkyo-ku, Tokyo, Japan

02:24 PM-02:36 PM
FF-03. Magnetic Phase Transition Modulation of Spin–Orbit Torque Efficiency in Epitaxial FeRh/Py Bilayers
J. Lu[1], P. Zhang[1], V. Lomakin[2], J. Hong[3]
[1]HBUT, Wuhan, China, [2]UCSD, La Jolla, California, United States, [3]UC Berkeley, Berkeley, California, United States

02:36 PM-02:48 PM
FF-04. Preserving Interfacial Integrity in Fe_3GaTe_2 Structures for All 2D Magnetic Tunnel Junctions
H. R. Stanfield, A. Mehrnejat, I. Vera Marun
Physics and Astronomy, The University of Manchester, Manchester, England, United Kingdom

02:48 PM-03:00 PM
FF-05. Quantum-well modulated tunnel magnetoresistance in Cr/Fe/MgO multilayers at room temperature with Ir insertion
T. Scheike, T. Nozaki, T. Nozaki, S. Yuasa
AIST, Tsukuba, Japan

03:00 PM-03:12 PM
FF-06. Unusual Nernst Effects Originating from Magnetic Film-Substrate Interface
G. T. Street[1], S. Karube[2], Y. Shiota[2], Y. Inaoka[2], T. Ono[2], S. Emori[1]
[1]Physics, Virginia Tech, Blacksburg, Virginia, United States, [2]Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan

03:12 PM-03:48 PM
FF-07. Longitudinal spin pumping and quantum spin transfer
K. Lee
KAIST, Daejeon, Korea (the Republic of)

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM
FF-09. Hydrogen-Induced Digital to Analog SOT Switching in CoGd Ferrimagnets for Neuromorphic Computing
R. Yadav, C. Lai
Material Science and Engineering, National Tsing Hua University, Hsinchu, Hsinchu, Taiwan

04:27 PM-04:39 PM
FF-10. Antiferromagnetic domain wall in ferrimagnetic bilayers controlled by magnetic spin Hall effect.
H. Kim[1], S. Ko[1], D. Han[2], J. Kang[2, 3], P. Cao Van[4], W. Choi[5], S. Kim[5], J. Jeong[4], B. Park[2], A. M. Park[1], K. Kim[6], K. Kim[1, 7]
[1]Department of Physics, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), [2]Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), [3]Department of Electrical and Computer Engineering, Northwestern University, Evanston, Illinois, United States, [4]Department of Materials Science and Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [5]Department of Physics, University of Ulsan, Ulsan, Korea (the Republic of), [6]Department of Physics, Yonsei University, Seoul, Korea (the Republic of), [7]Graduate School of Quantum Science and Technology, Daejeon, Korea (the Republic of)

04:39 PM-04:51 PM
FF-11. Room temperature control of axial and basal antiferromagnetic anisotropies using strain
H. Jani
University of Oxford, Oxford, United Kingdom

04:51 PM-05:03 PM

FF-12. Suppressing Gilbert damping in $L1_0$-FePt thin films by nanostructural control for sub-terahertz spin dynamics

P. D. Bentley[1, 2], Y. Sasaki[1], I. Suzuki[1], S. Isogami[1], Y. K. Takahashi[1], H. Suto[1]
[1]National Institute for Materials Science, Tsukuba, Japan, [2]National Institute for Quantum Science and Technology, Kizugawa, Japan

05:03 PM-05:15 PM

FF-13. Twisting Light, Steering Spins: Gold Nanoparticle Magnetization via Inverse Faraday Effect and Orbital Angular Momentum

X. Yang[1], C. Hareau[2], M. Mivelle[2]
[1]Dalian University of Technology, Dalian, China, [2]CNRS/Sorbonne University, Paris, France

SESSION FG: MAGNETIC INTERACTIONS AND SPIN DYNAMICS

Chair(s): D. Suess, *University Vienna, Wien, Austria*
Thursday, November 5, 2026
02:00 PM-05:30 PM
Sea Pearl

02:00 PM-02:36 PM

FG-01. Intra-particle volcanos: Identifying the nanoparticle hot spots for magnetic hyperthermia therapy

E. M. Jefremovas[1, 2]
[1]Department of Physics and Materials Science, University of Luxembourg, Luxembourg, Luxembourg, [2]Institute for Advanced Studies, University of Luxembourg, Esch-sur-Alzette, Luxembourg

02:36 PM-02:48 PM

FG-02. Relativistic DFT-to-Spin-Model Mapping for 2D Magnetic van der Waals Heterostructures

Z. Tajkov[1, 2], D. T. Pozsár[1], A. Garica Fuente[3], J. Ferrer[3], J. Fabian[4], L. Oroszlány[1]
[1]Department of Physics of Complex Systems, Eötvös Loránd University, Budapest, Budapest, Hungary, [2]Nanostructures, HUN-REN Centre for Energy Research, Budapest, Budapest, Hungary, [3]University of Oviedo, Oviedo, Spain, [4]University of Regensburg, Regensburg, Germany

02:48 PM-03:00 PM

FG-03. Atomically engineering metallic thin films for highly energy efficient non-volatile spintronic memories.

P. Wang, S. Parkin
NISE Department, Max-Planck-Institute of Microstructure Physics, Halle (Saale), Germany

03:00 PM-03:12 PM

FG-04. jaxFMM: Fast and Accurate Stray Field Evaluation for FEM Micromagnetics

R. Kraft[1, 2], F. Bruckner[1], D. Suess[1], C. Abert[1]
[1]Physics of Functional Materials, University of Vienna, Vienna, Austria, [2]Vienna Doctoral School in Physics, University of Vienna, Vienna, Austria

03:12 PM-03:24 PM

FG-05. Enabling Dynamic Geometries, Evolving Materials, and Extreme-Scale Simulation with On-the-Fly Finite Element Micromagnetic Solver

J. Duan, V. Lomakin
ECE, University of California San Diego, San Diego, California, United States

03:24 PM-03:36 PM

FG-06. Dynamic Atomistic Modelling of Domain Walls in Layered van der Waals Antiferromagnets

R. Rama-Eiroa[1, 2], E. Santos[1, 2, 3]
[1]Institute for Condensed Matter Physics and Complex Systems, The University of Edinburgh, Edinburgh, Midlothian, United Kingdom, [2]Higgs Centre for Theoretical Physics, The University of Edinburgh, Edinburgh, Midlothian, United Kingdom, [3]Donostia International Physics Center, San Sebastián, Spain

03:36 PM-03:48 PM

FG-07. Micromagnetic Framework for Cluster Magnetic Multipoles

M. Yoo[1], R. Winkler[2, 3], A. Hoffmann[1]
[1]Department of Materials Science and Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, United States, [2]Department of Physics, Northern Illinois University, DeKalb, Illinois, United States, [3]Materials Science Division, Argonne National Laboratory, Lemont, Illinois, United States

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM

FG-08. Ferroelectric Control of Chiral Magnetic Interactions in HfO_2-based Ferroelectric/Magnetic Heterostructures

G. Gandini[1], J. Hertel[4], A. Di Pietro[2], A. Magni[2], M. Madami[3], S. Tacchi[3], A. Pezo[5], M. Cantoni[1], C. A. Durner[4], M. Lederer[4], B. Lilienthal-Uhlig[4], M. Kuepferling[2], R. Arras[6], A. Manchon[7], C. Rinaldi[1]
[1]Physics, Politecnico di Milano, Milano, Lombardia, Como, Italy, [2]INRIM, Torino, Piemonte, Italy, [3]Università di Perugia, Perugia, Umbria, Italy, [4]Fraunhofer IPMS, Dresden, Saxony, Germany, [5]Université Paris-Saclay, Palaiseau, Essonne, France, [6]Université de Toulouse, Toulouse, Haute-Garonne, France, [7]Aix-Marseille Université, CNRS, Marseille, Bouches-du-Rhône, France

04:27 PM-04:39 PM

FG-09. FePt grain switching dynamics under spin-torque effects for storage

S. Chari, A. Venugopal, P. Czoschke
Seagate Technology, Shakopee, Minnesota, United States

04:39 PM-04:51 PM

FG-10. Magnetic interactions and their influence on electronic structures in Kagome-lattice magnet Fe_3Sn_2

D. Le[1], J. Kelley[1], G. M. Pantano[1], E. Thareja[1], C. Brennan-Rich[2], M. Phan[1, 3], Y. Mokrousov[4, 5], C. Marrows[2], J. D. Gayles[1]
[1]Department of Physics, University of South Florida, Tampa, Florida, United States, [2]University of Leeds, Leeds, United Kingdom, [3]VinUniversity, Hanoi, Viet Nam, [4]Forschungszentrum Jülich and JARA, Jülich, Germany, [5]Johannes Gutenberg University Mainz, Mainz, Germany

04:51 PM-05:03 PM

FG-11. Spin Phenomena at Planar (Anti)ferromagnetic and Altermagnetic Interfaces

R. Msiska[1, 2], C. J. Reichhardt[1], C. Reichhardt[1], A. B. Saxena[1]
[1]Theoretical Division, Los Alamos National Laboratory, Los Alamos, New Mexico, United States, [2]Center for Memory and Recording Research, University of California San Diego, San Diego, California, United States

05:03 PM-05:15 PM

FG-12. Accurate Computation of the 2D PBC Demagnetization Tensor for Micromagnetics

M. J. Donahue
ACMD, NIST, Gaithersburg, Maryland, United States

05:15 PM-05:27 PM

FG-13. Reconciling global and local spin models

B. Nyári[1, 3], A. Lászlóffy[2, 4], L. Szunyogh[1, 3]
[1]Department of Theoretical Physics, Budapest University of Technology and Economics, Budapest, Hungary, [2]Wigner Research Centre for Physics, Budapest, Hungary, [3]HUN-REN-BME Condensed Matter Research Group, Budapest, Hungary, [4]Pázmány Péter Catholic University, Budapest, Hungary

SESSION FP: INTERFACES AND FUNCTIONAL PROPERTIES IN MAGNETIC NANOSTRUCTURES (POSTER SESSION)

Co-Chair(s): P. Tiberto, *INRIM, Torino, Italy* and F. Albertini, *IMEM-CNR, Parma, Italy*
Thursday, November 5, 2026
03:00 PM-06:00 PM
Coral 4

FP-01. Crystal-orientation-tunable Tellurium Thin Films Grown on Bi_2Te_3 Buffer Layer

Y. Kobayashi, S. Wang, A. Mitsuzuka, M. Kawaguchi, M. Hayashi
Department of Physics, University of Tokyo, Tokyo, Japan

FP-03. Interfacial Contributions to Electrical Transport in TbFeCo/BiSb Multilayers with Varying Layer Thickness Ratio

M. Ito[1], K. Horiuchi[3], M. Mizuno[1], R. Ando[2], R. Uesugi[1], T. Komine[1]
[1]Ibaraki University, Hitachi, Japan, [2]Ibaraki College, Hitachinaka, Japan, [3]Tohoku University, Sendai, Japan

FP-05. Magnetic Anisotropy and Hyperthermic Efficiency of Polyethylene-grafted Fe_3O_4 Nanocomposites Synthesized via Ring-Opening Metathesis

E. Genfior, E. Gutierrez, A. Garcia, F. Iglesias, A. Khodagulyan, O. Bernal, A. N. Kocharian
Physics and Astronomy, California State University, Los Angeles, California, United States

FP-06. Exploring the Boost in Magnetization of Ni/β-Bi_2Pd Using X-ray Spectroscopies

Y. Chin[1], Y. Ku[2], D. Qu[3], S. Huang[2], H. Lin[4], C. Chen[4]
[1]National Chung Cheng University, Chiayi, Taiwan, [2]National Taiwan University, Taipei, Taiwan, [3]Center for Condensed Matter Sciences, National Taiwan University, Taipei, Taiwan, [4]National Synchrotron Radiation Research Center, Hsinchu, Taiwan

FP-07. Diameter dependence of magnetic properties and structure in cylindrical CoPt alloy nanowires

R. Kawana[1], D. Oshima[2], M. Saito[3], T. Homma[3], T. Kato[2], T. Ono[4], M. Shima[1], K. Yamada[1]
[1]Gifu University, Gifu, Japan, [2]Nagoya University, Nagoya, Japan, [3]Waseda University, Tokyo, Japan, [4]Kyoto University, Uji, Japan

FP-08. Engineering of Magnetic Anisotropy in Antiferromagnetic NiO(111) Epitaxial Thin Films

M. Slezak[1], A. Kwiatkowski[1], M. Zajac[2], M. Szpytma[2], A. Koziol Rachwal[1], T. Slezak[1]
[1]AGH University of Krakow, Krakow, Poland, [2]National Synchrotron Radiation Centre SOLARIS, Jagiellonian University, Krakow, Poland

FP-09. Engineering of FeB/SiB Multilayers for the Neutron Polarisers

S. K. Jena
Institute of Physics, Chemistry and Biology, Linkoping University, Linkoping, Linkoping, Sweden

FP-10. Magnetic Surface Spin Disorder and Shape Anisotropy in High-Aspect Ratio Ni Nanorods

S. Jan[1], A. I. Ojo[1], N. Schulz[2], J. Nag[1], P. Sharma[1], E. Jaberolansar[1], R. Yoosuf[3], H. Khurshid[4], D. A. Arena[1], H. Srikanth[1]
[1]Physics, University of South Florida, Tampa, Florida, United States, [2]Naval Surface Warfare Center, Panama City, Florida, United States, [3]Applied Physics and Astronomy, University of Sharjah, Sharjah, United Arab Emirates, [4]Eberly College of Science, The Pennsylvania State University, University Park, Pennsylvania, United States

FP-11. Reading the interaction between vortex textures in a FORC diagram
A. Rivelles, A. Parente, J. Prieto, M. Sanz, M. C. Maicas, M. Abuin
Instituto de Sistemas Optoelectrónicos y Microtecnología (ISOM), Universidad Politécnica de Madrid (UPM), Madrid, Madrid, Spain

FP-12. Irradiation-Induced Compaction in Amorphous SiO2 Thin Films for Magneto-Optical Systems: Ring-Structure Evolution and Multi-Scale Validation
K. Lee[1], K. Lee[2], W. Lee[1]
[1]School of Chemical and Biological Engineering, Seoul National University, Seoul, Korea (the Republic of), [2]Samsung Institute of Technology, Samsung Electronics, Yong-In, Korea (the Republic of)

FP-13. Local order and magnetism in chemically ordered FeRh nanocrystals deposited on $SrTiO_3$ (001) substrate.
J. Moreau[1], G. Herrera[1], A. Reyes[1], O. Boisron[1], F. Tournus[1], S. Gonzales[2], I. Canero-Infante[2], M. Bugnet[3], P. Ohresser[4], E. Otero[4], A. Rogalev[5], F. Wilhelm[5], D. Le Roy[1], V. Dupuis[1]
[1]Universite Lyon 1, CNRS, Institut Lumière Matière, UMR5306, Villeurbanne, France, [2]Université Lyon 1, CNRS, INSA Lyon, Ecole Centrale de Lyon, CPE Lyon, INL, UMR5270, Villeurbanne, France, [3]CNRS, INSA Lyon, Université Claude Bernard Lyon 1, MATEIS–UMR 5510, Villeurbanne, France, [4]Synchrotron SOLEIL, Saint-Aubin, France, [5]European Synchrotron Radiation Facility (ESRF), Grenoble, France

FP-14. Pulsed Laser Deposited $HoCo_2$ Thin Films: Tuning Magnetic Transition and electronic Transport Mechanism
A. Kumar, A. Biswas, Y. Mudryk
Ames National Laboratory, U.S. Department of Energy, Iowa State University, Ames, Iowa, United States

FP-15. Synthesis, Structure, and Size-dependent Superparamagnetism in MnNiSb Nanoparticles: Correlating Nanoscale Order with Magnetocaloric Performance
F. Amoo, S. Brock
Chemistry, Wayne State University, Detroit, Michigan, United States

FP-16. FePt Ferromagnetic Mosaic Structure
A. Lisfi[1], F. Efe[1], F. Bakhshizadeh[1], D. Alharbi[1, 2], M. Guy[1], M. Davis[1]
[1]Physics, Morgan State University, Baltimore, Maryland, United States, [2]The Catholic University, Washington, District of Columbia, United States

SESSION FQ: MULTIFERROIC AND HALF-METALLIC MATERIALS (POSTER SESSION)

Co-Chair(s): A. K. Patel, *Research Center for Magnetic and Spintronic Materials, National Institute for Materials Science, Tsukuba, Japan* and T. Hojo, *Advanced Spintronics Medical Engineering, Tohoku University, Sendai, Miyagi, Japan*
Thursday, November 5, 2026
03:00 PM-06:00 PM
Coral 4

FQ-01. Electronic, magnetic and structural properties of Fe 2 XGe (X=Ni, Co, Mo)
G. Buhrow[1], G. Reyes[1], M. Neupane[2], A. Goswami[2], P. Shand[1], P. Kharel[2], P. Lukashev[1]
[1]Physics, University of Northern Iowa, Cedar Falls, Iowa, United States, [2]South Dakota State University, Brookings, South Dakota, United States

FQ-02. Compositional Tuning of the Structural, Magnetic, and Mechanical Properties of $Co_{2-x}FeV_xAl$ system.
M. Minu[1], T. Grier[2], M. Garrett[2], A. Hauser[1], P. LeClair[1]
[1]Department of Physics and Astronomy, The University of Alabama, Tuscaloosa, Alabama, United States, [2]Department of Metallurgical and Materials Engineering, The University of Alabama, Tuscaloosa, Alabama, United States

FQ-03. Spin polarized singular flat band on the surface pentagonal lattice of a topological ferromagnet
B. Yang
Seoul National University, Seoul, Korea (the Republic of)

FQ-04. Observation of Ferromagnetism in Sputtered Co-doped HfO_2 Thin Films
K. Shilna, A. A. Tulapurkar
Electrical Engineering, Indian Institute of Technology Bombay, Mumbai, Maharashtra, India

FQ-05. An Antiferromagnetic Iron Garnet with Large Kerr Rotation
F. Tutt[1], J. Sýkora[2], M. Hubert[2], J. Marquez Chavez[1], M. Veis[2], C. A. Ross[1]
[1]Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States, [2]Faculty of Mathematics and Physics, Charles University, Prague, Czechia

FQ-06. B-Site Fe Substitution–Induced Modification of Structural Phase Transitions in $BaZr_{0.0.5}Ti_{0.95}O_3$: A Neutron Diffraction Study
M. Kumari[2, 1], R. Chatterjee[1]
[1]Physics, IIT Delhi, New Delhi, India, [2]HDD, Western Digital Technologies, San Jose, California, United States

FQ-07. By passing the Relaxor Transition: Non-Equilibrium Stabilization of Ferroelectric Order and Emergent Magnetism in Fe-Substituted $Bi_{0.5}Na_{0.5}TiO_3$ (BNT)
M. Kumari[1, 2]
[1]HDD, Western Digital Technologies(WD), SAN JOSE, CALIFORNIA, India, [2]Physics, IIT Delhi, Delhi, Delhi, India

FQ-08. Synthesis, Magnetism, and Magnetoelectric Properties of Polar Cluster Cobaltite $Ba_6La_2Co_4O_{15}$
T. Shirasaki, T. Ishikawa, H. Kuwahara
Engineering and Applied Sciences, Sophia University, Tokyo, Japan

FQ-09. Comparison of Doping Effects between Cu and Fe Sites for High-Temperature Multiferroic Compound $YBaCuFeO_5$
Y. Yasui, S. Kihara, K. Ikeda, T. Banshodani, R. Mimura
Physics, Meiji University, Kawasaki, Kanagawa, Japan

FQ-10. Unusual metamagnetism and field-induced phase coexistence in $BaErFeO_4$
T. Dang[4], T. Hoang[4], V. Chlan[3], T. Kmjec[3], M. Rozprym[3], J. Kohout[3], G. Rymski[5], D. Le[1], T. Nguyen[2], M. Phan[2, 1]
[1]University of South Florida, Tampa, Florida, United States, [2]VinUniversity, Hanoi, Viet Nam, [3]Charles University, Prague, Czechia, [4]Duy Tan University, Danang, Viet Nam, [5]Scientific-Practical Materials Research Center of the National Academy of Sciences of Belarus, Minsk, Belarus

FQ-11. Magnetic field angle dependence of specific heat in multiferroic Ca2CoSi2O7
M. Akaki[1], T. Kihara[2], M. Kimata[3]
[1]Core Facility Center, ARC, Kobe university, Kobe, Japan, [2]Research Institute for Interdisciplinary Science, Okayama university, Okayama, Japan, [3]Japan Atomic Energy Agency, Ibaraki, Japan

FQ-12. Magnetocrystalline Anisotropy and Control of Fe^{3+} Spin in Ferroelectric Oxides via Local Structural Distortions: from First-Principles
H. Ahmad[1], B. Barker[2], S. M. Griffin[3], E. Nowadnick[4]
[1]Physics, University of California Merced, Merced, California, United States, [2]Florida Polytechnic University, Lakeland, Florida, United States, [3]Lawrence Berkeley National Laboratory, Berkeley, California, United States, [4]Chemical and Materials Engineering, University of California Merced, Merced, California, United States

FQ-13. Ferroelectric-Like behavior at the Surface of Cr_2O_3
J. Keagy, W. Liao, S. Mahesh, N. Mancini, J. Shi
University of California Riverside, Riverside, California, United States

FQ-14. Substitution driven room temperature ferromagnetism in hexagonal $Lu_{1-x}Sr_xFeO_3$ ceramics
S. Pittala[1, 2], P. K U[2], P. Anil Kumar[2]
[1]Physics, Dayananda Sagar University, Bengaluru, Karnataka, India, [2]Physics, Indian Institute of Science, Bengaluru, Karnataka, India

FQ-15. Polarization Reversal and Strain-Driven Magnetic Phase Transitions Enable Reversible Topological Switching in CrGeTe3/In2Se3
W. Li, S. Dong, J. Zhang
Physics, Southeast University, Nanjing, Jiangsu Province, China

FQ-16. Interface Effects on Spin Glass Behavior in Ni/MoS2
A. J. Stollenwerk[1], H. Harms[1], S. Diallo[1], A. Hager[1], E. Ahmetasevic[1], T. Porter[1], C. J. Cunningham[1], C. Hemesath[1], P. Lukashev[1], T. Kidd[1], B. Wei[2], L. Zhou[3], P. Shand[1]
[1]Physics, University of Northern Iowa, Cedar Falls, Iowa, United States, [2]Ames National Laboratory, Ames, Iowa, United States, [3]Materials Science and Engineering, University of Virginia, Charlottesville, Virginia, United States

SESSION FR: LOW DIMENSIONAL MAGNETISM, COMPLEX PHASES, TOPOLOGY AND CHIRALITY (POSTER SESSION)
Chair(s): H. Zeng, *Physics, University of Buffalo, Buffalo, New York, United States*
Thursday, November 5, 2026
03:00 PM-06:00 PM
Coral 4

FR-01. Correlation Between Magnetic Frustration and Spin-Dependent Transport in Fe_2(Mn,Cr)Al Heusler Alloys
A. Ashok[1, 2], N. Bhagat[1]
[1]Applied Sciences, Symbiosis Institute of Technology, Symbiosis International (Deemed) University, Pune, Maharashtra, India, [2]Physics, Savitribai Phule Pune University, Pune, Maharashtra, India

FR-02. NMR-T_1 study of 1/3-magnetization plateau in equilateral-triangular-lattice antiferromagnet $Ba_2La_2CoTe_2O_{12}$
T. Goto[1], K. Kobayashi[1], S. Daimon[2], T. Ohtsuki[1], H. Tanaka[3], N. Kurita[3], M. Watanabe[3], Y. Kojima[3], T. Sasaki[4]
[1]Physics Division, Sophia University, Chiyodaku, Tokyo, Japan, [2]Quantum Materials and Applications Research Center, National Institutes for Quantum Science and Technology (QST), Tokyo, Japan, [3]Institute of Science Tokyo, Tokyo, Japan, [4]Institute for Material Research, Tohoku University, Sendai, Japan

FR-03. Anomalous Hysteresis and Magnetic Phase Transitions in the Heusler Compound $Fe_{1.3}Mn_{1.7}Si$
M. Hiroi, I. Shigeta
Department of Physics and Astronomy, Kagoshima University, Kagoshima, Japan

FR-04. Inverse Magnetocaloric Effect and Magnetic Phase Diagram of $Fe_{3-x}Mn_xSi$ Near x = 1.7
M. Hiroi, T. Takamoto, Y. Koda, I. Shigeta
Department of Physics and Astronomy, Kagoshima University, Kagoshima, Japan

FR-05. Magnetic Behavior and Magnetic Ground State of $Ba_3MgRu_2O_9$
U. Iida, T. Tai, D. Sekita, Y. Yasui
Physics, Meiji University, Kawasaki, Kanagawa, Japan

FR-06. Synthesis of Niobium-doped Sodium Cobalt Tellurate ($Na_2Co_2Te_{1-x}Nb_xO_6$) Towards Zero-magnetic Field Stable Quantum Spin Liquids

S. C. Mills[1], N. Hill[2], E. Patterson[1], M. Staruch[1]
[1]Materials Science and Technology Division, US Naval Research Laboratory, Washington, District of Columbia, United States, [2]Howard University, Washington, District of Columbia, United States

FR-07. Ancilla-Based Quantum Simulation of Spin Excitation Spectra in One-Dimensional Spin Chains

H. Ryu, J. Byeon, J. Seo, S. Lim, K. Jeong, J. Hong, K. Moon, N. Lee, Y. Choi
Department of Physics, Yonsei University, Seoul, Korea (the Republic of)

FR-08. Quantum Simulation of Spin-1 Magnetic System Including Magnetocrystallin Anisotropy Using Variational Quantum Eigensolver

J. Byeon, H. Ryu, S. Lim, K. Jeong, J. Seo, J. Hong, H. Kim, K. Moon, N. Lee, Y. Choi
Department of physics, Yonsei University, Seoul, Korea (the Republic of)

FR-09LB. The Meissner Stability Limit of Clean Niobium at Low Temperatures

T. Kubo
High Energy Accelerator Research Organization, Tsukuba, Japan

FR-10. Magnetic correlations of ferromagnetic domains in plastically strained Pt_3Fe antiferromagnet

S. Kobayashi[1], A. Nakano[1], Y. Ikeda[2], M. Fujita[2], K. hiroi[3], T. Kumada[3], R. Motokawa[3]
[1]Iwate University, Morioka, Japan, [2]Tohoku University, Sendai, Japan, [3]JAEA, Tokai, Japan

FR-11. Electronic and Magnetic Properties of Random Fcc Ce_3Al Alloy

R. Wu[1], Y. Li[2], E. Mijit[3], Y. Amakai[1]
[1]Muroran Institute of Technology, Muroran, Japan, [2]Inner Mongolia Normal University, Hohhot, China, [3]Sorbonne Université, Paris, France

FR-12. Magnetic behavior and Phase Diagram of $Ba_3Zn_{1-x}Ni_xRu_2O_9$ ($0 \leqq x \leqq 1$)

J. Sato, Y. Yasui
Physics, Meiji University, Kawasaki, Kanagawa, Japan

FR-13. Field-induced magnetization plateaus in a frustrated spin-1/2 Heisenberg antiferromagnet on a diamond-decorated honeycomb lattice

K. Karlova[1], J. Strecka[1], M. Rouxel[2], A. Honecker[2]
[1]Pavol Jozef Safarik University, Kosice, Slovakia, [2]LPTM, Cergy Paris University, Cergy-Pontoise, France, France

FR-14. Doping Effect on Paramagnetic-to-Nonmagnetic Phase Transition of $Ba_3BiRu_2O_9$

T. Nakagawa, Y. Yasui
Physics, Meiji University, Kawasaki, Kanagawa, Japan

FR-15. Dynamics of Emergent Dipole-Moment Conservation in Spin Chains under a Magnetic-Field Gradient

C. Tachibana[1], T. Orito[1], D. Yamamoto[1, 2]
[1]Department of Physics, College of Humanities and Sciences, Nihon University, Setagaya, Tokyo, Japan, [2]RIKEN Center for Quantum Computing, Wako, Saitama, Japan

FR-16. Quantum Effects on the Magnetization Curve in the Triangular-Lattice Spin-Chain Compound $CsFeCl_3$

T. Yamane, D. Yamamoto
Department of Physics, College of Humanities and Sciences, Nihon University, Setagaya-Ku, Tokyo, Japan

FR-17LB. Symmetry aspects of Yu-Shiba-Rusinov bands in magnetic atomic chains on a superconductor

B. Nyári[1], A. Lászlóffy[2], L. Szunyogh[1], B. Ujfalussy[2], L. Rózsa[2]
[1]Department of Theoretical Physics, Budapest University of Technology and Economics, Budapest, Hungary, [2]Wigner Research Centre for Physics, Budapest, Hungary

FR-18LB. Annealing-controlled magnetic ordering in $MnSb_2Te_4$

L. Zeni Cunha[1], A. van Dijke[1], N. Hitzelberger[1], L. Corredor[2], A. Isaeva[2]
[1]Institute of Physics, University of Amsterdam, Amsterdam, Netherlands, [2]Physics, TU Dortmund University, Dortmund, Germany

FR-19LB. Room-Temperature Ferromagnetism and Electronic Structure in Cr-Doped $PdTe_2$

S. Cheng[1], H. Shiu[1], T. Chuang[1], Y. Lai[1], W. Chen[1], D. Wei[1], H. Wei[1], C. Lue[2], Y. Hsu[1]
[1]National Synchrotron Radiation Research Center, Hsinchu, Taiwan, [2]Department of Physics, National Cheng Kung University, Tainan, Taiwan

FR-20LB. High-temperature spin glass behavior at the interface of Ni/MoS_2 heterostructures

T. Kidd[1], P. Shand[2], E. Ahmetasevic[2], P. Nguyen[2], T. Porter[2], C. J. Cunningham[2], H. Harms[2], S. Diallo[2], G. Ye[3], P. Lukashev[2], L. Zhou[4], A. J. Stollenwerk[2], R. He[5]
[1]Ames National Laboratory, Ames, Iowa, United States, [2]Physics, University of Northern Iowa, Cedar Falls, Iowa, United States, [3]Electrical Engineering, Texas Tech University, Lubbock, Texas, United States, [4]Materials Sciences & Engineeing, University of Virginia, Charlottesville, Virginia, United States, [5]Physics, The University of Texas at Arlington, Arlington, Texas, United States

BIERSTUBE
Thursday, November 5, 2026
05:30 PM-06:30 PM
Coral Lounge
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APS Physical Review Journals

MEET THE DISTINGUISHED LECTURERS
Thursday, November 5, 2026
05:30 PM-06:30 PM
Coral Lounge

IEEE INTERSOCIETY TECHNOLOGY ROADMAP ON MAGNETICS FOR POWER ELECTRONICS MEETING (ITRMP)
Thursday, November 5, 2026
06:00 PM-07:30 PM
Hibiscus 1&2

SESSION GA: SPIN-CHARGE-PHOTON CONVERSION: FROM LEDS TO LASERS

Co-Chair(s): Y. Lu, *Institut Jean Lamour, CNRS, Nancy, France* and H. Lu, *Chemistry, The Hong Kong University of Science and Technology, Hong Kong, Hong Kong*

Friday, November 6, 2026

08:30 AM-12:00 PM

Coral 3

Supported by

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08:30 AM-09:06 AM

GA-01. Developing spin light emitting diodes toward real optoelectronic applications

Y. Lu

Institut Jean Lamour, CNRS, Nancy, France

09:06 AM-09:18 AM

GA-02. Nanosecond and Field-Free Magnetization Switching using Chromium Orbital Torque for LED Helicity Control

R. T. Victor[1], A. Dainone[2], G. Lan[1], A. Pezo[1], Y. Xu[1], S. Collin[1], F. Godel[1], Y. Lu[2], N. Reyren[1], H. Jaffrès[1], J. George[1]

[1]Laboratoire Albert Fert, Palaiseau, France, [2]Institut Jean Lamour, Université de Lorraine, Nancy, France

09:18 AM-09:30 AM

GA-03. Spin-Charge-Photon Conversion and Emission in Electrically Driven Quantum Dots

C. Wijesundara[1], V. Iglesias-Cardinale[1], Y. Lu[2], H. Fotso[1], T. Thomay[1]

[1]Physics, SUNY at Buffalo, Buffalo, New York, United States, [2]Institut Jean Lamour, Nancy, France

09:30 AM-10:06 AM

GA-04. Chirality-driven Spin and Orbital Transfer between Electrons and Light

B. Yan

Physics, Pennsylvania State University, State College, Pennsylvania, United States

10:06 AM-10:45 AM

Break

10:45 AM-11:21 AM

GA-06. (110)-Oriented III–V Heterostructures for Room-Temperature Spin Lasers

S. Iba[1], Y. Ohno[1, 2]

[1]National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan, [2]University of Tsukuba, Tsukuba, Japan

11:21 AM-11:33 AM

GA-07. Spin-polarised surface plasmon polaritons generated at Ag/oxide interfaces

A. Lee[1], H. Koizumi[1], E. Moedl[1], D. Oue[2], M. Matsuo[4], A. Hirohata[1, 3]

[1]CSIS, Tohoku University, Sendai, Japan, [2]RIKEN, Wako, Japan, [3]Chemical Physics of Solids, Max Planck Institute, Dresden, Germany, [4]Kavli Institute, Beijing, China

11:33 AM-11:45 AM

GA-08. Harnessing plasmonic heating for switching in antiferromagnets

H. Yuan[1], Y. Wu[2], O. Gomonay[3]

[1]Zhejiang University, Hangzhou, Zhejiang, China, [2]Fudan University, Shanghai, Shanghai, China, [3]Johannes-Gutenberg University Mainz, Mainz, Germany

SESSION GB: EXPLORING THE EFFECTS OF REDUCED DIMENSIONALITY ON FRUSTRATED QUANTUM MAGNETS
Chair(s): J. S. Gardner, *Materials Science and Technology, ORNL, Oak Ridge, Tennessee, United States*
Friday, November 6, 2026
08:30 AM-12:00 PM
Coral 5

08:30 AM-09:06 AM
GB-01. Quantum Criticality and Dimensional Reduction of a Sawtooth-Chain Material
L. Stödter
JCNS at MLZ, Forschungszentrum Jülich GmbH, Garching, Germany

09:06 AM-09:18 AM
GB-02. Structure–Property Interplay and Low Field Metamagnetism in Stoichiometric Na_4NiTeO_6
S. Patil[1, 2], A. .[1, 2], S. D. Kaushik[1, 2]
[1]UGC-DAE Consortium for Scientific Research Mumbai Centre, Mumbai, Maharashtra, India, [2]Savitribai Phule Pune University, Pune, Maharashtra, India

09:18 AM-09:30 AM
GB-03. Non Collinear Magnetic Ground State Driven by a Giant Dzyaloshinskii–Moriya Interaction in a Kagome Magnet
D. Tam[1, 3], R. Sibille[1], T. Mazet[2], A. Piovano[3], B. Malaman[2], D. Gawryluk[1], L. Roduit[1], A. Turrini[1], B. Roessli[1], L. Keller[1], Y. Soh[1]
[1]Paul Scherrer Institute, Villigen, Switzerland, [2]University of Lorraine, Nancy, France, [3]Institut Laue-Langevin, Grenoble, France

09:30 AM-10:06 AM
GB-05. Evidence for a nodal line spin liquid in a Face Centered Cubic Antiferromagnet.
K. Plumb
Physics, Brown University, Providence, Rhode Island, United States

10:06 AM-10:18 AM
GB-06. Luttinger-Tomonaga liquid in a purely organic spin ladder
M. Pardo-Sainz[1, 2], T. Ono[2], I. Diaz-Ortega[3], T. Kihara[3], H. Nojiri[3], Y. Hosokoshi[2], J. Campo[1]
[1]Spanish National Research Council (CSIC), Zaragoza, Spain, [2]Osaka Metropolitan University, Sakai, Japan, [3]Institute Materials Research, Sendai, Japan

10:18 AM-10:45 AM
Break

10:45 AM-10:57 AM
GB-07. The Rare-Earth Hexaaluminates, $REMgAl_{11}O_{19}$, as a playground for Triangular Lattice Magnetism
R. H. Colman[1], S. Kumar[1], G. Bastien[1], A. Kancko[1], C. A. Correa[2], T. Treu[3], P. Gegenwart[3]
[1]Department of Condensed Matter Physics, Charles University, Prague, Czechia, [2]Institute of Physics, Czech Academy of Sciences, Prague, Czechia, [3]Experimental Physics VI, University of Augsburg, Augsburg, Germany

10:57 AM-11:09 AM
GB-08. Observation of Bimeron Crystal and Giant In-plane Topological Hall Effect in a Centrosymmetric Magnet
S. Sun[1], Y. Hao[2], C. Huang[3], S. Chen[2], J. Green[1], H. Roshandel[4], J. He[4], W. Laderer[4], M. Tran[1], P. Diaconescu[4], A. Alexandrova[4], C. D. Batista[2, 3], H. Cao[2], N. Ni[1, 5]
[1]Department of Physics and Astronomy, University of California, Los Angeles, Los Angeles, California, United States, [2]Neutron Scattering Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, [3]Department of Physics and Astronomy, University of Tennessee, Knoxville, Tennessee, United States, [4]Department of Chemistry and Biochemistry, University of California, Los Angeles, Los Angeles, California, United States, [5]California NanoSystems Institute, University of California, Los Angeles, Los Angeles, California, United States

11:09 AM-11:45 AM
GB-09. Tailoring Kitaev Quantum Spin Liquid States in Cobalt-Based Honeycomb Oxide Heterostructures
C. Sohn
UNIST, Ulsan, Korea (the Republic of)

SESSION GC: ULTRAFAST II
Chair(s): H. Reichlova, *Institute of Physics of the Czech Academy of Sciences, Prague, Czechia*
Friday, November 6, 2026
08:30 AM-12:00 PM
Coral 1

08:30 AM-09:06 AM
GC-01. Propagating Antiferromagnetic Magnons in Synthetic Antiferromagnets
Y. Shiota
Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan

09:06 AM-09:18 AM
GC-02. Mapping All-Optical Switching Thresholds in Co/Pt Multilayers: A Comparative Study of Tantalum-Buffered and Unbuffered Thin Films
A. Villar[1], Y. L. Guen[2], J. Hohlfeld[2], R. Morales[3, 4], S. Mangin[2], P. Vavassori[4, 5], J. Porro[1, 4]
[1]BCMaterials, Leioa, Spain, [2]Insititut Jean Lamour, Université de Lorraine, Nancy, France, [3]Chemical-Physics, University of the Basque Country, Leioa, Vizcaya, Spain, [4]IKERBASQUE, Bilbao, Spain, [5]nanomagnetism, CIC nanoGUNE, Donosti, Spain

09:18 AM-09:30 AM
GC-03. Strong Optical Control of Magnon and Magnetization Dynamics in van der Waals Ferromagnets
Y. Gong[1], Y. Liang[2], W. Farias[1], A. Bielicki[1], R. Jin[2]
[1]Physics and Astronomy, College of Charleston, Charleston, South Carolina, United States, [2]Physics and Astronomy, University of South Carolina, Columbia, South Carolina, United States

09:30 AM-09:42 AM
GC-04. Spin-torque-driven magnetization dynamics of ferrimagnet $Co_{100-x}Gd_x$ alloy
H. Kim, G. Choi
Sungkyunkwan University, Suwon, Korea (the Republic of)

09:42 AM-09:54 AM
GC-05. Picosecond-scale State-selective All-optical Magnetization Control in Ferromagnetic Nanoislands using the Inverse Faraday Effect
T. Zheng, X. Xiao, R. Oulton, W. R. Branford, J. Gartside
Physics, Imperial College London, London, United Kingdom

09:54 AM-10:06 AM
GC-06. Signature of Jahn-Teller-like magnetic instability in $YbFeO_3$ and dynamical strong coupling of Fe spins and Yb orbitals
O. Kovalenko[1], N. Vovk[1], A. Wu[2], R. V. Mikhaylovskiy[1]
[1]Lancaster University, Lancaster, UK, United Kingdom, [2]Shanghai Institute of Ceramics, Shanghai, China

10:06 AM-10:18 AM
GC-07. Time-evolution of chiral Néel magnetic domain walls in multilayers probed by soft x-ray resonant magnetic scattering.
Z. Guo[1, 2], C. Léveillé[1, 2], R. Gruber[3], D. Ksenzov[4], E. Pedersoli[5], F. Capotondi[5], C. Gutt[4], M. Kläui[3], V. Cros[2], N. Reyren[2], N. Jaouen[1]
[1]Synchrotron SOLEIL, Gif sur Yvette, France, [2]laboratoire Albert Fert, Palaiseau, France, [3]Institut of Physics, Johannes Gutenberg-Universität Mainz, Mainz, Germany, [4]Department Physik, Universität Siegen, Siegen, Germany, [5]Elettra-Sincrotrone, Trieste, Italy

10:18 AM-10:45 AM
Break

10:45 AM-11:21 AM
GC-08. Ultrafast lattice-driven manipulation of ferroic order
A. Kirilyuk
HFML-FELIX, Radboud University, Nijmegen, Netherlands

11:21 AM-11:33 AM
GC-09. Beyond GdFeCo: single-pulse all-optical switching in heavy rare-earth alloys and multilayers - from thin films to dots
B. Kunyangyuen[1], D. Petty Gweha Nyoma[1], G. Malinowski[1], B. Seng[1], W. Zhang[1], J. Hohlfeld[1], J. Gorchon[1], D. Lacour[1], J. Lin[1], Y. L. Guen[1], L. D. Buda-Prejbeanu[2], E. Fullerton[3], S. Mangin[1], f. montaigne[1], M. Hehn[1]
[1]P2M, Institut Jean Lamour, Nancy, Lorraine, France, [2]Spintec, Grenobled, France, [3]UCLA, San Diego, California, United States

11:33 AM-11:45 AM
GC-10. Emergence of the nontraditional magnetic ordering from RuO2: Importance of nonequilibrium and degeneracy
G. Zhang[1], Y. Liu[2], M. Si[2], J. Wang[3], Y. Bai[1], T. F. George[4]
[1]Indiana State University, Terre Haute, Indiana, United States, [2]Lanzhou University, Lanzhou, China, [3]China University of Mining and Technology, Xuzhou, China, [4]University of Missouri-St Louis, St. Louis, Missouri, United States

SESSION GD: HARD MAGNETIC MATERIALS II: NEXT-GENERATION PERMANENT MAGNETS
Co-Chair(s): I. C. Nlebedim, *Division of Critical Materials, Ames National Laboratory, Ames, Iowa, United States* and X. Tang, *National Institute for Materials Science (NIMS), Tsukuba, Ibaraki, Japan*
Friday, November 6, 2026
08:30 AM-12:00 PM
Coral 2

08:30 AM-09:06 AM
GD-01. Additive Manufacturing of Permanent Magnets
S. Krishnan[1], A. Paul[1], Q. Guo[1], J. Shield[1, 2]
[1]Mechanical & Materials Engineering, University of Nebraska-Lincoln, Lincoln, Nebraska, United States, [2]Nebraska Center for Materials and Nanoscience, University of Nebraska-Lincoln, Lincoln, Nebraska, United States

09:06 AM-09:18 AM
GD-03. High Coercivity of 2.8 T in HRE-Free Anisotropic Magnets by Microstructure Engineering
X. Tang[1], Z. Kautsar[1], H. Sepehri-Amin[1], T. Kajiwara[2], H. Miyawaki[2], T. Ohkubo[1], K. Hono[1]
[1]National Institute for Materials Science, Tsukuba, Ibaraki, Japan, [2]Daido Steel Co., Nagoya, Japan

09:18 AM-09:30 AM
GD-04. Direct Recycling of Sm–Co Permanent Magnets: Phase Reconstruction and Coercivity Retention
N. Gunduz Akdogan[1, 2], O. Akdogan[3, 2]
[1]Piri Reis University, Istanbul, Turkey, [2]NANOTerial Technology, Istanbul, Turkey, [3]Bahcesehir University, Istanbul, Turkey

09:30 AM-09:42 AM
GD-05. First-Order Reversal Curve Analysis of Bonded and Sintered $SmCo_5$-Based Magnets
T. Suwa[3, 1], K. Park[3], S. Okamoto[1, 2], Y. Hirayama[3]
[1]Tohoku University, Sendai, Japan, [2]National Institute for Materials Science, Tsukuba, Japan, [3]National Institute of Advanced Industrial Science and Technology (AIST), Nagoya, Japan

09:42 AM-09:54 AM
GD-06. Sm-Co/Fe nanocomposite fine particles prepared by low-oxygen powder metallurgy
K. Park[1], Z. Liu[1], T. Suwa[1, 2], S. Okamoto[2, 3], Y. Hirayama[1]
[1]National Institute of Advanced Industrial Science and Technology (AIST), Nagoya, Japan, [2]Tohoku University, Sendai, Japan, [3]National Institute for Materials Science, Tsukuba, Japan

09:54 AM-10:06 AM
GD-07. Intrinsic properties of Sm-(Fe-M)-C, N compounds for high-performance permanent magnet
Y. Hirayama[1], Y. Tatetsu[2]
[1]National Institute of Advanced Industrial Science and Technology, Nagoya, Japan, [2]Meio University, Nago, Japan

10:06 AM-10:18 AM
GD-08. Cell-like structure of high coercivity $Sm_2(Fe, Mn)_{17}N_x$ coarse powder produced by overnitridation
A. Hosokawa
National Institute of Advanced Industrial Science and Technology, Nagoya, Japan

10:18 AM-10:45 AM
Break

10:45 AM-10:57 AM
GD-10. Diffusion-Driven Pathways for Development of Rare Earth Free $L1_0$ Ordered FeNi Thin Films for Permanent Magnet Applications
A. Gupta, M. Gupta
Physics, UGC-DAE Consortium for Scientific Research, Indore, Madhya Pradesh, India

10:57 AM-11:09 AM
GD-11. Role of orbital magnetic moments in tetragonally distorted FeCo-based alloys studied by X-ray magnetic circular dichroism
J. Okabayashi[1], C. Murakami[2], T. Hasegawa[2]
[1]UTokyo, Tokyo, Tokyo, Japan, [2]Akita Univ., Akita, Akita, Japan

11:09 AM-11:21 AM
GD-12. Enhanced Coercivity in C16 phase high-entropy borides through ultrafast high-temperature sintering
B. J. Fugetta[1], T. Li[2], K. Zeng[2], C. Liu[3], W. Beeson[1], X. Zhang[3], G. Yin[1], L. Hu[2], K. Liu[1]
[1]Physics, Georgetown University, Washington, District of Columbia, United States, [2]Materials Science, Yale University, New Haven, Connecticut, United States, [3]Materials Science and Applied Physics Department, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia

11:21 AM-11:33 AM
GD-13. Chemical Bonding Descriptors for Rare-Earth-Free Permanent Magnet Discovery
A. Rauf[1], E. Oliphant[2, 1], W. Sun[1]
[1]Materials Science and Engineering, University of Michigan, Ann Arbor, Michigan, United States, [2]Schwarzman College of Computing, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States

SESSION GE: COUPLED-FIELD FUNCTIONAL MAGNETICS: MAGNETOELASTIC, MAGNETOCALORIC AND BEYOND
Chair(s): J. Amaral, *Physics, Universidade de Aveiro, Aveiro, Portugal*
Friday, November 6, 2026
08:30 AM-12:00 PM
South Pacific 1/2

08:30 AM-09:06 AM
GE-01. Magnetoelastic mass sensing: fundamentals, optimization strategies, and applications in harsh environments
A. Lopes[1, 2], A. García-Arribas[1], J. Gutiérrez[1], J. Saiz Garitaonandia[1], A. Lasheras[1]
[1]University of the Basque Country, Leioa, Spain, [2]IKERBASQUE, Basque Foundation for Science, Bilbao, Spain

09:06 AM-09:18 AM
GE-02. Maximizing the Torque Density of Magnetic Elastomer Soft Actuators
H. Htet, A. El-Ghazaly
Electrical and Computer Engineering, Cornell University, Ithaca, New York, United States

09:18 AM-09:30 AM
GE-03. Stress Tunable Multiferroic Magnetic Circuit : The Magnetic Rheostat
T. R. Mion[1], M. Staruch[1], N. J. Jones[2], J. Yoo[2], R. Olsson[3], M. G. Allen[3], P. Finkel[1]
[1]Material Science & Technology, US Naval Research Laboratory, Washington, District of Columbia, United States, [2]Carderock Division, Naval Surface Warfare Center, Bethesda, Maryland, United States, [3]Department of Electrical and Systems Engineering, University of Pennsylvania, Philadelphia, Pennsylvania, United States

09:30 AM-09:42 AM
GE-05. Wrong-Way Magnetic Anisotropy in Polycrystalline Alloy Films
O. A. Bakare[1], S. Abdizadeh Kalan[1], G. T. Street[1], A. Almahmoud[1], C. Klewe[2], S. Emori[1]
[1]Physics, Virginia Tech, Blacksburg, Virginia, United States, [2]Advanced Light Source, Lawrence Berkeley National Lab, Berkeley, California, United States

09:42 AM-09:54 AM
GE-07. Magnetic Structure of Antiphase Boundaries in Ni-Mn-Ga Magnetic Shape Memory Alloys
O. Heczko[1], F. Máca[1], V. Drchal[1], L. Straka[1], V. Chlan[2], H. Seiner[4], J. Zemen[1, 3]
[1]Magnetic Materials, FZU – Institute of Physics of the Czech Academy of Sciences, Prague, Czechia, [2]Low Temperature Physics, Faculty of Mathematics and Physics, Charles University, Prague, Czechia, [3]Faculty of Electrical Engineering, Czech Technical University, Prague, Czechia, [4]Institute of Thermomechanics of the Czech Academy of Sciences, Prague, Czechia

09:54 AM-10:06 AM
GE-09. Tuning Magnetocaloric Response by Shape Anisotropy in NiCoGa Nanowire Arrays
A. A. Mendonça[1], V. M. Prida[2], V. Vega[2], F. Béron[1]
[1]Universidade Estadual de Campinas, Campinas, Brazil, [2]Universidad de Oviedo, Oviedo, Oviedo, Spain

10:06 AM-10:18 AM
GE-10. Arc-Melting-Induced Texturing and Its Impact on Magnetic and Magnetocaloric Properties
J. Bae, W. Yang, M. Kim, D. Shin
Korea Institute of Materials Science, Changwon, Gyeongsangnam-do, Korea (the Republic of)

SESSION GF: TOPOLOGICAL MATERIALS AND SPIN TEXTURES
Co-Chair(s): Z. Wen, *National Institute for Materials Science (NIMS), Tsukuba, Ibaraki, Japan* and T. G. Rappoport, *INL Braga, Rio de Janeiro, Brazil*
Friday, November 6, 2026
08:30 AM-12:00 PM
South Pacific 3/4

08:30 AM-09:06 AM
GF-01. Racetrack Memory – 2D and 3D
S. Parkin
Max Planck Institute for Microstructure Physics, Halle (Saale), Germany

09:06 AM-09:18 AM
GF-03. Differentiating anomalous and topological Hall effects using first-order reversal curve measurements
G. M. Stephen[1], R. Van Haren[1], V. Sharma[1], L. Tai[2, 3], B. Dai[3], H. Chi[4], K. Wang[3], A. T. Hanbicki[1], A. Friedman[1]
[1]Laboratory for Physical Sciences, College Park, Maryland, United States, [2]RIKEN, Wako, Japan, [3]University of California, Los Angeles, Los Angeles, California, United States, [4]University of Ottawa, Ottawa, Ontario, Canada

09:18 AM-09:30 AM
GF-04. Controlling Complex Spin Textures: From Emergent Magnetism to Spintronic Function
L. Kern, G. Beach
Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States

09:30 AM-09:42 AM
GF-05. Investigating topological Hall effect using simultaneous soft x-ray scattering and imaging
A. Us-Saleheen, S. Roy, S. A. Morley
Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, California, United States

09:42 AM-09:54 AM
GF-06. Investigating the 3D Spatial Distribution of Magnetic Correlations in the Chiral Helimagnet $Cr_{1/3}NbS_2$
L. DeBeer-Schmitt[1], M. Henderson[1], A. Aczel[1], M. McGuire[2], N. J. Ghimire[3], S. Kuhn[1], M. Eskildsen[3], D. Mandrus[4]
[1]Neutron Science Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, [2]MSTD, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, [3]Physics Department, University of Notre Dame, Notre Dame, Indiana, United States, [4]Materials Engineering Department, University of Tennessee: Knoxville, Knoxville, Tennessee, United States

09:54 AM-10:06 AM
GF-07. Influence of off-stoichiometric composition on the topological surface transport in In-doped SnTe thin films
R. Uesugi[1], R. Ando[2], M. Mizuno[1], T. Aono[1], T. Chiba[3], T. Komine[1]
[1]Ibaraki University, Hitachi, Japan, [2]Ibaraki College, Hitachinaka, Japan, [3]Yamagata University, Yonezawa, Japan

10:06 AM-10:45 AM
Break

10:45 AM-11:21 AM

GF-08. Measurement of Fermi-Surface Geometry and Spin Texture Using Nonlinear-Transport Quantum Oscillations

V. Kalappattil[1], C. Liu[1], Z. Chen[2], V. Sharma[1], K. Liu[2], J. Tang[3], S. Zhang[4], M. Wu[1]
[1]Physics, Northeastern University, Boston, Massachusetts, United States, [2]Physics, Georgetown University, Washington, District of Columbia, United States, [3]Physics, University of Wyoming, Laramie, Wyoming, United States, [4]Physics, Case Western Reserve University, Cleveland, Ohio, United States

11:21 AM-11:33 AM

GF-09. Development of Wafer-Scaled Sb_2Te_3 Topological Insulator for Highly Efficient Spin-Charge Interconversion at Room Temperature

E. M. Longo[2], R. M. Ahmed[1], A. Shafiei[1], M. Belli[3], M. Longo[4], M. Alia[1], C. Wiemer[1], R. Mantovan[1]
[1]Unit of Agrate Brianza, CNR-IMM, Agrate Brianza (MB), Please select one below:, Italy, [2]Laboratory of Multifunctional Oxides and Complex Structures, ICMAB-CSIC, Barcelona, Spain, [3]CNR-IMEM, Parma, Italy, [4]Tor Vergata, Università degli Studi di Roma, Rome, Italy

11:33 AM-11:45 AM

GF-10. Interfacial Transparency and Proximity Effects Governing Spin-to-Charge Conversion in Sputtered $Bi_{85}Sb_{15}$

V. Sharma[1, 2], R. Van Haren[2], V. Kalappattil[3], V. Sharma[3], D. Takhar[4], F. M. Abel[5], G. M. Stephen[2], R. K. Ghosh[4], M. Wu[3], A. T. Hanbicki[2], A. Friedman[2]
[1]University of Maryland College Park, College Park, Maryland, United States, [2]Laboratory for Physical Sciences, College Park, Maryland, United States, [3]Northeastern University, Boston, Massachusetts, United States, [4]IIIT Delhi, Delhi, India, [5]United States Naval Academy, Annapolis, Maryland, United States

11:45 AM-11:57 AM

GF-11. Antiferromagnetic Exchange Bias and Magnetic Characterization of T-phase MnSe

J. E. DeMell[1, 2], B. Jordan[2], J. Fleischer[1], J. Kotsakidis[2], K. M. Daniels[2]
[1]Laboratory for Physical Sciences, College Park, Maryland, United States, [2]IREAP, University of Maryland, College Park, Maryland, United States

SESSION GG: MAGNONICS II

Chair(s): T. Kuschel, *Institute of Physics, Johannes Gutenberg University Mainz, Mainz, Germany*
Friday, November 6, 2026
08:30 AM-12:00 PM
Sea Pearl

08:30 AM-09:06 AM

GG-01. Magnons as information carriers in hybrid quantum architectures

S. Viola Kusminskiy
RWTH Aachen University, Aachen, Germany

09:06 AM-09:18 AM

GG-02. Chiral Transport in Hybrid Magnon-Phonon Moiré Superlattice

J. Liu[1, 2, 3], L. Liao[2, 4], H. Isshiki[4], Z. Chen[3, 5], J. Puebla[2], Q. Shao[1, 3, 5], Y. Otani[2, 4]
[1]Electronic and Computer Engineering, Hong Kong University of Science and Technology, Hong Kong, Hong Kong, [2]Center for Emergent Matter Science, RIKEN, Wako, Japan, [3]IAS Center for Quantum Technologies, Hong Kong University of Science and Technology, Hong Kong, Hong Kong, [4]Institute for Solid State Physics, University of Tokyo, Tokyo, Japan, [5]Department of Physics, Hong Kong University of Science and Technology, Hong Kong, Hong Kong

09:18 AM-09:30 AM
GG-03. Polarization-Driven Level Repulsion and Mode Switching in a Multi-Mode Photon–Magnon Resonator
A. Maurya, S. Verma, R. Singh, B. Bhoi
Department of Physics, Indian Institute of Technology (BHU) Varanasi, Varanasi, Uttar Pradesh, India

09:30 AM-09:42 AM
GG-06. Nonlinear and Nonreciprocal Generation of Spin Wave Harmonics and Frequency Combs in Thin Magnetic Films with Interfacial Dzyaloshinskii–Moriya Interactions
L. D. Powell, E. Iacocca, R. E. Camley
Physics, University of Colorado, Colorado Springs, Colorado Springs, Colorado, United States

09:42 AM-09:54 AM
GG-07. Magnonic Frequency Comb in Vertex-Modified Square Artificial Spin Ices
N. Rentzber, E. Iacocca
University of Colorado Colorado Springs, Colorado Springs, Colorado, United States

09:54 AM-10:06 AM
GG-08. Tunable spin-wave dynamics in nanoscale bicomponent magnetic fractals
R. Mehta, S. Saha
Physics, Ashoka University, Rai, Haryana, India

10:06 AM-10:18 AM
GG-09. Spin-wave caustic beam steering and interference in YIG and Permalloy
N. Sahni[1], D. Wagle[1, 2], B. Jungfleisch[1], L. Gundlach[1, 3], Y. Ren[1], J. Q. Xiao[1]
[1]Physics and Astronomy, University of Delaware, Newark, Delaware, United States, [2]Laboratory for Physical Sciences, College Park, Maryland, United States, [3]Department of Chemistry and Biochemistry, University of Delaware, Newark, Delaware, United States

10:18 AM-10:45 AM
Break

10:45 AM-10:57 AM
GG-10. Magnon-Phonon Coupling and Interfacial Dzyaloshinskii-Moriya Interaction in Heavy-Metal/Ferromagnet Heterostructures
E. Savostin[1, 2, 3], V. Lomakin[1, 2, 3]
[1]Center for Memory and Recording Research, University of California San Diego, La Jolla, California, United States, [2]Program in Materials Science and Engineering, University of California, San Diego, La Jolla, California, United States, [3]Department of Electrical and Computer Engineering, University of California San Diego, La Jolla, California, United States

10:57 AM-11:09 AM
GG-11. Simulation of smooth spin-wave transmission spectra using symmetric two-dimensional magnonic crystals
D. Shabaev[1], Y. Otsuka[1], T. Watanabe[2], E. Negishi[2], K. Ishiyama[1], T. Goto[1]
[1]Research Institute of Electrical Communication, Sendai, Japan, [2]Shin-Etsu Chemical, Gunma, Japan

11:09 AM-11:21 AM
GG-12. Unconventional magnetization states in artificial spin lattices enabled by nanopatterned synthetic ferromagnets.
R. Sultana[1], S. Lendinez[2], S. Josephy[3], B. Jungfleisch[1]
[1]Physics & Astronomy, University of Delaware, Newark, Delaware, United States, [2]Louisiana State University, Baton Rouge, Louisiana, United States, [3]Qzabre LLC, Zurich, Switzerland

SESSION GP: SKYRMIONS, TOPOLOGY AND CHIRALITY (POSTER SESSION)

Co-Chair(s): C. Murapaka, *Materials Science and Metallurgical Engineering, IIT Hyderabad, Hyderabad, Telangana, India* and H. Arava, *Argonne National Laboratory, Lemont, Illinois, United States*

Friday, November 6, 2026

09:30 AM-12:30 PM

Coral 4

GP-01. Long-range modulation of skyrmion population by local current injection

S. Yadav[1], S. Chatterjee[1], S. Sugimoto[2], S. Kasai[2]

[1]IIT(BHU), Varanasi, India, [2]NIMS, Tsukuba, Japan

GP-02LB. Optimized control protocols for stable skyrmion creation using deep reinforcement learning

J. Song[1], S. Kim[1], K. Kim[2]

[1]Graduate School of Quantum Science and Technology, Korea Advanced Institute of Science and Technology, Dajeon, Korea (the Republic of), [2]Asia Pacific Center for Theoretical Physics, Pohang, Korea (the Republic of)

GP-03. Realization of Maxwell's demon in a two-skyrmion system

S. Miki[1, 2], K. Adachi[2], R. Ishikawa[3, 4, 5], H. Imanishi[2], E. Tamura[2, 6], Y. Shiota[7, 8], T. Nozaki[9], M. Goto[5, 10, 11], H. Nomura[5, 10, 12], Y. Suzuki[2, 5, 13]

[1]WPI-AIMR, Tohoku University, Sendai, Miyagi, Japan, [2]Graduate School of Engineering Science, The University of Osaka, Toyonaka, Osaka, Japan, [3]Graduate school of Engineering, The University of Osaka, Suita, Osaka, Japan, [4]ULVAC, inc., Suita, Osaka, Japan, [5]OTRI-Osaka, The University of Osaka, Suita, Osaka, Japan, [6]Graduate school of Engineering, Kyoto University, Kyoto, Kyoto, Japan, [7]Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan, [8]CSRN-Kyoto, Kyoto University, Uji, Kyoto, Japan, [9]AIST, Tsukuba, Ibaraki, Japan, [10]CSRN-Osaka, The University of Osaka, Toyonaka, Osaka, Japan, [11]Tokyo University of Science, Katsushika, Japan, [12]SRIS, Tohoku University, Sendai, Japan, [13]Osaka Institute of Technology, Osaka, Osaka, Japan

GP-04. Stabilization and Angle-dependent Resonant Dynamics of Skyrmions in Re/Co/Pt Multilayers

S. K. Jena

Institute of Physics, Chemistry and Biology, Linkoping University, Linkoping, Sweden

GP-06. Skyrmions in W/CoFeB/MgO/Ta SAFs by Ion Irradiation

M. Wilke, S. Kostadinov, M. Becherer, V. Ahrens

Professorship of Chip-Based Magnetic Sensor Technology, Technical University of Munich, Garching, Bavaria, Germany

GP-07LB. Anomalous Hall Effect in Antiferromagnetic FeMn Doped with Pt

S. Abdizadeh Kalan, S. Emori

Physics, Virginia Tech, Blacksburg, Virginia, United States

GP-08. Voltage-Propagated Skyrmion Logic and Memory for Large-Scale Reversible Computing

B. Walker[1, 2], K. Muthukrishnan[1], X. Hu[1], M. Frank[3], F. Garcia-Sanchez[4], A. J. Edwards[1], D. Querlioz[2], J. S. Friedman[1]

[1]Electrical and Computer Engineering, University of Texas at Dallas, Richardson, Texas, United States, [2]Universite Paris-Saclay, Palaiseau, France, [3]Vaire Computing, Sunnyvale, California, United States, [4]Departamento de Fisica Aplicada, Universidad de Salamanca, Salamanca, Spain

GP-09. Skyrmions lattice in Fe/Gd multilayers with planar magnetic anisotropy driven by wobbling movement

F. Fettar[1], J. Tonnerre[1], E. Mossang[1], A. Masseboeuf[2], A. Bernand-Mantel[3], C. Gatel[3], N. Jaouen[4], H. Popescu[4], A. Wartelle[1], G. Beutier[5], L. Ortega[6], V. P. Nascimento[7], E. C. Passamani[7], N. Rougemaille[1]

[1]Neel Institute, CNRS, Grenoble, France, [2]SPINTEC, CEA, Grenoble, France, [3]CEMES, CNRS, Toulouse, France, [4]Exp Divisio, Synchrotron SOLEIL, Saint-Aubin, France, [5]SIMaP, Université Grenoble Alpes, Université Grenoble Alpes, France, [6]LPS, CNRS, Orsay, France, [7]Physics, Universidade Federal do Espirito santo, Vitoria, Brazil

GP-10. Magnon Propagation and Topological Phases in Hybrid Breathing-Honeycomb Lattice

P. Andrade[1], M. da SIlva Tavares[1, 2], R. F. Pinto[3]
[1]Department of Physics, State University of Maranhão, São Luís, Maranhão, Brazil, [2]Department of Physics, Federal Institute of Maranhão, São Luís, Maranhão, Brazil, [3]Department of Physics, Federal Institute of Amazonas, Presidente Figueiredo, Maranhão, Brazil

GP-11. Interplay between long-range magnetic ordering and topological band structure in GdZn

A. Biswas[1], A. Bhattacharya[2, 3], A. Kumar[1], A. Schmidig[1], S. Majee[2, 4], S. DuttaGupta[2], I. Das[2], P. Singh[1], Y. Mudryk[1]
[1]Ames National Laboratory, U.S. Department of Energy, Ames, Iowa, United States, [2]Condensed Matter and Surface Physics Division, Saha Institute of Nuclear Physics, Kolkata, West Bengal, India, [3]Department of Physics, Bar-Ilan University, Ramat-Gan, Israel, [4]Homi Bhabha National Institute, Mumbai, India

GP-12. Magnetic Properties and Lattice Dynamics study in CVD-Grown Fe-Te Systems: influence of Phase and Composition

B. Jena[1], S. Chandran[2]
[1]Department of Physics, IIT Madras, Chennai, Tamilnadu, India, [2]Department of Physics, IIT Madras, Chennai, Tamilnadu, India

GP-14. Microscopic Magnon–Phonon Coupling in 2D $CrCl_3$: Toward Functional Spin–Lattice Engineering.

J. Mejia[1, 2], F. Nuñez-Murillo[1, 2]
[1]Physics, Universidad Católica de Chile, Santiago, Chile, [2]Millenium Institute on Green Ammonia as Energy Vector MIGA-ANID, Santiago, Chile

GP-15. Permutationally Invariant Signatures of Measurement-Induced Phase Transitions

K. Tokue[1], D. Yamamoto[1, 2]
[1]Department of Physics, College of Humanities and Sciences, Nihon University, Setagaya, Tokyo, Japan, [2]RIKEN Center for Quantum Computing, Wako, Saitama, Japan

SESSION GQ: ALTERMAGNETIC, ANTIFERROMAGNETIC, TERAHERTZ AND SUPERCONDUCTING SPINTRONICS I (POSTER SESSION)

Chair(s): S. Shreya, *Electrical and Computer Engineering Department, Aarhus University, Aarhus, Denmark*
Friday, November 6, 2026
09:30 AM-12:30 PM
Coral 4

GQ-01. Large Magnetoresistance and Reconfigurable Spin Filtering Efficiency Induced by Nonvolatile Electrical Control of Magnetism in van der Waals Sc_2CO_2/Bilayer-$NiCl_2$/Sc_2CO_2 Multiferroic Heterostructures

H. Wang[1, 2, 3], X. Guo[2], B. Chi[1], Y. Zhu[4], Y. Yan[2], X. Han[1]
[1]Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, Beijing, China, [2]Key Laboratory of Physics and Technology for Advanced Batteries (Ministry of Education), Department of Physics, Jilin University, Changchun, Jilin, China, [3]Center of Materials Science and Optoelectronics Engineering, University of Chinese Academy of Sciences, Beijing, China, [4]Guangdong Provincial Key Laboratory of Optical Information Materials and Technology and Institute for Advanced Materials, South China Academy of Advanced Optoelectronics, South China Normal University, Guangzhou, Guangdong, China

GQ-02. Anomalous magnetic field-dependent spin dynamics in Gd0.3Ho0.7FeO3 single crystal near the ordering temperature of rare-earth ions

A. Wu, Z. Zhang, L. Su
Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai, China

GQ-03. Engineering magnetic anisotropy and domain evolution in Dy_xCo_{1-x}ferrimagnetic alloy thin films through composition

R. Kaur, Y. V. Shalihotri, C. Murapaka
Materials Science and Metallurgical Engineering, Indian Institute of Technology Hyderabad, Sangareddy, Telangana, India

GQ-04. Spin-splitting-induced anisotropic Hall effect in noncoplanar antiferromagnet

M. Jung[1], H. Yun[1], J. Moon[1], Y. Kim[2], S. Gim[2]
[1]Department of Physics, Sogang University, Seoul, Korea (the Republic of), [2]Department of Physics, KAIST, Daejeon, Korea (the Republic of)

GQ-06LB. Superconducting diode effect in magnetic superconductors realized by nonreciprocal domain-wall dynamics

D. Han[1], S. Chung[2], S. Kim[1]
[1]Physics, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea (the Republic of), [2]Physics, University of Seoul, Seoul, Korea (the Republic of)

GQ-07. Real-Space Imaging of Anomalous Hall Conductivity in Thin Films and Heterointerfaces: A First-Principles Study

F. Ishii[1], Y. Morishima[2], N. Yamaguchi[1]
[1]Nanomaterials Research Institute, Kanazawa University, Kanazawa, Ishikawa, Japan, [2]Graduate School of Natural Science and Technology, Kanazawa University, Kanazawa, Ishikawa, Japan

GQ-08. Deep Learning-Assisted High-Throughput Discovery of Altermagnets for Spintronic Applications

D. Kho[1, 2, 3], V. C. Rogers[2, 3], S. Islam[2, 3], J. C. Incorvia[2, 3]
[1]Department of Electrical and Computer Engineering, Seoul National University, Seoul, Korea (the Republic of), [2]Chandra Family Department of Electrical and Computer Engineering, University of Texas at Austin, Austin, Texas, United States, [3]Microelectronics Research Center, University of Texas at Austin, Austin, Texas, United States

GQ-09. Unconventional Long-Range Superconducting Proximity Effect in Topological Insulator–Iron-Based Superconductor Heterostructures

T. Wang[1], Z. Xing[2]
[1]School of Mathematics, Nanjing University of Aeronautics and Astronautics, Nanjing, Jiangsu, China, [2]School of Electronic Science and Engineering, Nanjing University, Nanjing, Jiangsu, China

GQ-10. Control of d-wave altermagnetic domain by a tilted magnetic field

H. Koizumi[1, 2, 3], M. Kimata[5, 2], H. Yanagihara[1], A. Hirohata[2, 4], Y. Yamasaki[3, 2]
[1]Univ. of Tsukuba, Tsukuba, Japan, [2]Tohoku University, Sendai, Japan, [3]NIMS, Tsukuba, Japan, [4]Max Planck Institute, Dresden, Germany, [5]Japan Atomic Energy Agency, Tokai, Japan

GQ-11. Evidence of THz Emission from Spin-Charge Conversion in Heavy Metal/Antiferromagnet Insulator

B. Huang, B. Yang, D. Wu
Nanjing University, Nanjing, China

GQ-12. Domain Wall-Mediated SOT Switching in Selectively Oxidized $Co_{1-x}Gd_x$ Ferrimagnets Toward Low-Current, High-Stability Spintronic Memory devices

S. Jeong[1], D. Han[2], S. Ko[1], B. Park[2], K. Kim[1]
[1]Physics, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), [2]Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of)

GQ-13. Data driven discovery of altermagnetic materials

Y. Khatri, R. Sabirianov
Physics, University of Nebraska at Omaha, Omaha, Nebraska, United States

GQ-14. Effects of Mo-Site Impurity Doping on Magnetic and Magnetoelectric Properties in $M_2Mo_3O_8$
T. Ishikawa, T. Shirasaki, S. Nakayama, H. Kuwahara
Department of Engineering and Applied Sciences, Sophia University, Tokyo, Japan

GQ-15. Anomalous Hall Effect in Heavy Metal Layers of Ferrimagnet/Heavy-Metal Bilayers
S. Kim[1], J. Chang[2, 3], Y. Jeong[1, 2], M. Kim[2, 3], A. Lee[4], J. Lee[4], Y. Choi[4], S. Park[4], S. Choe[3], K. Kim[5], D. Kim[2], S. Je[1]
[1]Department of Physics, Chonnam National University, Gwangju, Korea (the Republic of), [2]Center of Spintronics, Korea Institute of Science and Technology (KIST), Seoul, Korea (the Republic of), [3]Department of Physics & Astronomy, Seoul National University, Seoul, Korea (the Republic of), [4]Center for Scientific Instrumentation, Korea Basic Science Institute, Daejeon, Korea (the Republic of), [5]Department of Physics, Yonsei University, Seoul, Korea (the Republic of)

GQ-16. Influence of the Hall-bar geometry and electrodes on the Anomalous Hall voltage
J. Sim[1], Y. Mok[2, 3], M. Kim[2, 3], S. Choe[2], D. Kim[3], S. Je[1]
[1]Department of Physics, Chonnam National University, Gwangju, Korea (the Republic of), [2]Department of Physics & Astronomy, Seoul National University, Seoul, Korea (the Republic of), [3]Center for Spintronics, Korea Institute of Science and Technology, Seoul, Korea (the Republic of)

SESSION GR: MAGNETIC CHARACTERIZATION (POSTER SESSION)

Co-Chair(s): M. Mivelle, *Physics, CNRS/Sorbonne University, Paris, France* and E. Jal, *LCPMR, CNRS, Sorbonne Université, Paris, France*
Friday, November 6, 2026
09:30 AM-12:30 PM
Coral 4

GR-01. Anisotropic Nanoparticle Clusters in Frozen Ferrofluids
A. Nazarov
NIST, Boulder, Colorado, United States

GR-02. Estimation of Circumferential Defect Locations in Transported Steel Bars during Conveyance Using the Gradient of Magnetic Flux Density
K. Matsushima[3], K. Shiku[2], T. Nara[2], Y. Gotoh[1]
[1]Faculty of Science and Engineering, Oita University, Oita, Japan, [2]Graduate School of Information Science and Technology, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, [3]Graduate School of Science and Engineering, Oita University, Oita, Japan

GR-03. Characterization of magnetic particle ensembles in magnetically fluidized beds
C. De Somer[1], R. De Croo[1], H. Poelman[2], V. Galvita[2], G. Heynderickx[2], L. Dupré[1], A. Coene[1]
[1]Department of Electromechanical, Systems and Metal Engineering, Ghent University, Gent, Belgium, [2]Department of Materials, Textiles and Chemical Engineering, Ghent university, Gent, Belgium

GR-04. Temperature dependent Anomalous Nernst effect in magnetic metallic film by ac higher harmonics technique
J. Wu[1, 3], D. Cahill[2, 3]
[1]Department of Physics, University of Illinois Urbana-Champaign, Urbana, Illinois, United States, [2]Department of Materials Science and Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, United States, [3]Materials Research Laboratory, University of Illinois Urbana Champaign, Urbana, Illinois, United States

GR-05. Rapid measurement of First Order Reversal Curves (FORCs) for high coercivity rare earth magnets using Pulsed Field Magnetometers (PFMs)
J. Mckenzie, R. Cornelius, J. Wade
Hirst Magnetics, Falmouth, Cornwall, United Kingdom

GR-06. Selective Magnetophoretic Separation of Sickle Red Blood Cells Using a Quadrupole Magnetic Sorter

D. M. Phan[1], L. Nguyen T. Tran[1], P. Iyer[2], J. Chalmers[2], J. Gomez-Pastora[1]
[1]Chemical Engineering, Texas Tech University, Lubbock, Texas, United States, [2]William G. Lowrie Department of Chemical and Biomolecular Engineering,, The Ohio State University, Columbus, Ohio, United States

GR-08. Quantitative Analysis of Magnetic Image Effects on Torque Magnetometry for High-Precision Anisotropy Measurements

M. Rashid[1], A. Sapkota[2], L. Rodriguez[2], W. Geerts[2]
[1]Physics, Texas State University, San Marcos, Texas, United States, [2]Texas State University, San Marcos, Texas, United States

GR-09. Investigation of the Role of Surface Charge in Aggregation Dynamics with Magneto-optical Measurements

M. Syed[1], C. Su[1], T. Ebii[1], H. Petrache[2], D. Maity[2], S. Reza[1]
[1]Physics, Optical Engineering and NanoEngineering, Rose-Hulman Institute of Technology, Terre Haute, Indiana, United States, [2]Physics, Indiana University Indianapolis, Indianapolis, Indiana, United States

GR-10. Disk Type Magnetizer Design for Post-Assembly Magnetization of Yoke-Less Halbach-Array SPMSM

H. Han[1], J. Lee[1], Y. Lee[1], C. Jin[2], W. Kim[3]
[1]Next Generation Smart Energy System Convergence, Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of), [2]Electrical Engineering, Wonkwang University, Iksan-si, Jeonbuk-do, Korea (the Republic of), [3]Electrical Engineering, Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of)

GR-11. Complete Thermodynamic Characterization of Magnetocaloric Materials: Instrumentation Considerations

R. K. Dumas[1], D. Bastos[2], A. Soares[2], L. Andrade[2], J. Amaral[3], K. Dixon-Anderson[4, 5], Y. Mudryk[4, 5], V. Franco[6], J. P. Araújo[2], R. Almeida[2], J. H. Belo[2]
[1]Quantum Design, Inc., San Diego, California, United States, [2]Physics, IFIMUP – Institute of Physics for Advanced Materials, Nanotechnology and Photonics, Porto, Portugal, [3]Physics, University of Aveiro, Aveiro, Portugal, [4]Ames National Laboratory of US Department of Energy, Ames, Iowa, United States, [5]Department of Materials Science and Engineering, Iowa State University, Ames, Iowa, United States, [6]Department for Condensed Matter Physics, University of Seville, Seville, Spain

GR-12. Tuning Magnetocaloric Response and Metamagnetism in $Ho(Co_{1-x}Cu_x)_2Si_2$ by Cu Substitution

J. D. Peña Serna, D. M. M. A. García, A. Gomes
Institute of Physics, Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil

GR-13. Energy-Resolved Magnetic Circular Dichroism for Probing Chiral-Induced Spin Selectivity and Spin-Polarized Optical Transitions

H. Hsu[1], W. Liao[1], Y. Shao[2]
[1]Department of Applied Physics, National Pingtung University, Pingtung, Taiwan, [2]National Synchrotron Radiation Research Center, Hsinchu, Taiwan

GR-14. Effects of Curved Sensing Coils on Triaxial Vibrating Sample Magnetometer (TVSM) Sensitivity and Crosstalk

L. Rodriguez, W. Geerts
Texas State University, San Marcos, Texas, United States

GR-15. Effect of La and Ca Substitution on Magnetic and Magnetocaloric Properties of Gd_2NiMnO_{6-} Based Double Perovskites

J. Sultana[1, 2], S. Mishra[2]
[1]Natural Sciences, Texas A&M University-Texarkana, Texarkana, Texas, United States, [2]Physics and Materials Science, University of Memphis, Memphis, Tennessee, United States

GR-16. Effect of ZrO_2 substitution in nitride grain boundary materials on magnetic properties and nanostructure for FePt granular films

K. Tham[1], D. Miyazaki[1], S. Saito[2]
[1]Tanaka Precious Metal Technologies, Tsukuba, Ibaraki, Japan, [2]Electronic Engineering, Graduate School of Engineering, Tohoku University, Sendai, Japan

GR-17LB. Direct magnetic imaging of magnetite nanoparticles assemblies via resonant x-ray dichroic ptychography

J. Rackham[1], A. Fraile Rodríguez[2], A. I. Figueroa[2], D. Shapiro[3], R. Sandberg[1], K. Chesnel[1]
[1]Physics, Brigham Young University, Provo, California, United States, [2]Institute of Nanoscience and Nanotechnology, University of Barcelona, Barcelona, Barcelona, Spain, [3]Advanced Light Source, LBNL, Berkeley, California, United States

GR-18LB. Resolving In-Plane Magnetic Domains and Angular Dependence in 8-ML Co/Cu(100) via Soft X-ray Photoelectron Microscopy at the Taiwan Photon Source

J. H. Du[1], H. Wei[2], M. Wu[2], H. Chiu[2], C. Hsu[1], T. Chuang[2], D. Wei[2]
[1]Physics, Chung Yuan Christian University, Taoyuan, Taiwan, [2]National Synchrotron Radiation Research Center, Hsinchu, Taiwan

GR-19LB. Development of the MagXES spectrometer at the APS 4-ID POLAR beamline

F. Frontini, D. Casa, A. Said, Y. Choi, D. Haskel, G. Fabbris
Advanced Photon Source, Argonne National Laboratory, Lemont, Illinois, United States

YOUNG PROFESSIONALS LIGHTNING TALKS

Friday, November 6, 2026
12:30 PM-01:45 PM
Nautilus
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SESSION HA: MAGNETISM AND THE BRAIN: NEUROMODULATION, NEUROIMAGING AND NOVEL APPLICATIONS

Chair(s): K. Wu, *Department of Physics, University of South Florida, Tampa, Florida, United States*
Friday, November 6, 2026
02:00 PM-05:30 PM
Coral 3

02:00 PM-02:36 PM

HA-01. Magnetoelectric Nanodiscs for Wireless Neuromodulation

Y. Kim, N. Kent, E. Vargas Paniagua, A. Comite, N. Seethapathi, P. Anikeeva
Massachusetts Institute of Technology, Cambridge, Massachusetts, United States

02:36 PM-03:12 PM

HA-02. Magnetic Particle Imaging of the Brain

A. Tonyushkin[1, 2], C. McDonough[1, 2], T. Siddiqua[1, 2]
[1]Physics Department, Oakland University, Rochester, Michigan, United States, [2]Center for Biomedical Research, Oakland University, Rochester, Michigan, United States

03:12 PM-03:48 PM

HA-03. Novel Transcranial Magnetic Stimulation Coils and Validation Techniques for Human and Animal Studies

R. L. Hadimani
Department of Mechanical Engineering, Virginia Commonwealth University, Richmond, Virginia, United States

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM
HA-04. From Regeneration to Modulation: Translational Case Studies in Magnetoelectric Neurointerfaces
E. Zhang[2], H. Ye[2], N. Cancino[1], A. Suarez[1], A. Vezzoni[2], V. Pustovalov[2], M. Sanchez[1], B. Nelson[2], S. Pané[2]
[1]IDIBAPS, Barcelona, Spain, [2]ETH Zurich, Zurich, Switzerland

04:27 PM-04:39 PM
HA-05. Site- and age- dependent variability in TMS-induced cortical E-fields Across Four Clinical Targets: A 40-Subject FEM Study with Cross-Platform Comparison
S. S. Achanta[1], S. A. Neeha[2], R. L. Hadimani[1]
[1]Mechanical and Nuclear Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, [2]Biomedical Engineering, Virginia Commonwealth University, Richmond, Virginia, United States

04:39 PM-04:51 PM
HA-06. TMS PHANTOMS FOR INVESTIGATING MULTIMODAL NEUROMODULATION PROCEDURES
W. Lohr[2], R. L. Hadimani[1]
[1]Mechanical Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, [2]Biomedical Engineering, Virginia Commonwealth University, Richmond, Virginia, United States

04:51 PM-05:03 PM
HA-07. Effects of repetitive transcranial magnetic stimulation guided by individual alpha frequency versus a 10-Hz control frequency on cortical excitability
H. Lin[1, 2], C. Lee[2, 3], L. Ye[2, 3], S. Chen[4], P. Chiu[5], C. Huang[6], C. Hsieh[7], H. Chen[8], T. Wu[2, 3]
[1]Department of Neurosurgery, Show Chwan Memorial Hospital, Changhua, Taiwan, [2]Graduate School of Materials Science, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan, [3]Taiwan SPIN Research Center, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan, [4]Department of Mechanical and Mechatronic Engineering, National Taiwan Ocean University, New Taipei City, Taiwan, [5]Department of Neurology, Show Chwan Memorial Hospital, Changhua, Taiwan, [6]Biomechanics Lab., Department of Medical Research, MacKay Memorial Hospital, Taipei, Taiwan, [7]Department of Neurology, Yumin Medical Cooperation, Yumin Hospital, Nantou, Taiwan, [8]Department of Physical Medicine and Rehabilitation, National Taiwan University Hospital Yunlin Branch, Douliu, Yunlin, Taiwan

05:03 PM-05:15 PM
HA-08. A Space-Time Parallel Algorithm for the Electric Field Simulation of Temporal Interference Transcranial Magnetic Stimulation
Y. Zhang[1], X. Yang[2]
[1]Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China, [2]Hebei University of Technology, Tianjin, China

05:15 PM-05:27 PM
HA-09. Microwave Guide of Nitrogen-Vacancy Center in Diamond Quantum Magnetometer for Magnetoencephalography
T. Zhu, M. Sekino
The University of Tokyo, Tokyo, Japan

SESSION HB: QUANTUM MAGNETISM IN NANOSTRUCTURES
Chair(s): Q. Zhang, *ORNL, Oak Ridge, Tennessee, United States*
Friday, November 6, 2026
02:00 PM-05:30 PM
Coral 5

02:00 PM-02:36 PM
HB-01. Lorentz Electron Ptychography
K. Nguyen[1], M. Hollis[1], E. Fullerton[2], S. Montoya[2]
[1]Physics, University of Oregon, Eugene, Oregon, United States, [2]Electrical Engineering, University of California, San Diego, San Diego, California, United States

02:36 PM-03:12 PM
HB-02. Tunable and long-range entanglement of skyrmion qubits
D. R. Candido
University of Iowa, Iowa City, Iowa, United States

03:12 PM-03:48 PM
HB-03. Macroscopic Quantum Tunneling of Magnetic Skyrmions
T. Yokouchi
RIKEN, Wako, Japan

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM
HB-04. Effective Defect–Carrier Pair Modeling and Electrically Detected Magnetic Resonance of Silicon Vacancy Centers in 4H-SiC for Self-Calibrating Quantum Magnetometry
D. R. Hart
Mathematics and Physics, Southern University and A & M College, Baton Rouge, Louisiana, United States

04:27 PM-04:39 PM
HB-05. High-Field EPR Investigation of Metal–Organic Frameworks for Quantum Spin Coherence and Structure–Relaxation Correlations
K. Thangavel
National High Magnetic Field Laboratory, Tallahassee, Florida, United States

04:39 PM-04:51 PM
HB-06. Controlling and Sensing Spin Systems with Free Space Electrons
P. Haslinger[1, 2, 3]
[1]VCQ, Vienna, Austria, [2]USTEM - TU Wien, Wien, Wien, Austria, [3]Atominstitut - TU Wien, Wien, Austria

04:51 PM-05:03 PM
HB-07. Proximity Effect Induced Magnetization Enhancement in the LSMO/YBCO Superlattice System
H. Chou[1, 2], S. Sun[2, 1], Y. Tsai[1], H. Salazar[1], A. J. Grutter[3], D. Cortie[4]
[1]Physics, National Sun Yat-sen University, Kaohsiung City, Taiwan, Taiwan, [2]Applied Physics, National University of Kaohsiung, Kaohsiung City, Taiwan, Taiwan, [3]Center for Neutron Research, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, [4]ANSTO, Lucas Heights, New South Wales, Australia

05:03 PM-05:15 PM
HB-08. Large Nonreciprocal Current Induced by Helical Spin States
H. Ishizuka
Physics, Institute of Science Tokyo, Meguro, Tokyo, Japan

05:15 PM-05:27 PM
HB-09. Measurement-based Quantum Computing and Quantum Many-body Scars in Quantum Ferromagnets
I. Maruyama[1], S. Miyahara[2]
[1]Department of Information and Systems Engineering, Fukuoka Institute of Technology, Fukuoka, Japan, [2]Department of Applied Physics, Fukuoka University, Fukuoka, Japan

SESSION HC: MAGNETOELECTRONIC MATERIALS AND HETEROSTRUCTURES
Chair(s): P. Finkel, *Materials Science Division, Naval Research Laboratory, Washington, District of Columbia, United States*
Friday, November 6, 2026
02:00 PM-05:30 PM
Coral 1

02:00 PM-02:36 PM
HC-01. Autferroicity: physics & materials
S. Dong, Z. Wang, J. Zhang
School of Physics, Southeast University, Nanjing, Jiangsu, China

02:36 PM-02:48 PM
HC-02. Exchange Bias and Magnetoionic Switching in Electrolyte-Gated $LaCoO_3/SrCoO_{3-\delta}$ Bilayers
H. Son, J. Liang, N. Nandakumaran, C. Leighton
Chemical Engineering and Materials Science, University of Minnesota Twin Cities, Minneapolis, Minnesota, United States

02:48 PM-03:00 PM
HC-04. Strain-mediated Electric-field Control of Perpendicular Magnetic Tunnel Junctions in Multiferroic Heterostructures
X. Li[1], Z. Qu[1], Z. Liu[2], B. Fang[2], Z. Zeng[2], Y. Zhao[1]
[1]Tsinghua University, Beijing, China, [2]Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, Suzhou, China

03:00 PM-03:12 PM
HC-05. Magnetoelectric coupling in LSMO/BTO/Co/Pt multiferroic junctions probed via TMR
J. Pawlak[1, 2], J. Kanak[2], W. Skowronski[2]
[1]Academic Centre for Materials and Nanotechnology, AGH University of Krakow, Krakow, Poland, [2]Institute of Electronics, AGH University of Krakow, Krakow, Poland

03:12 PM-03:24 PM
HC-07. Manipulating Antiferromagnetic Spin Orientations in $La_{0.5}Sr_{0.5}FeO_3$ / $La_{0.7}Sr_{0.3}MnO_3$ Bilayers
Y. Takamura[1], I. Nihal[1, 2], M. Frame[1], C. Klewe[2]
[1]Materials Science and Engineering, University of California, Davis, Davis, California, United States, [2]Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, California, United States

03:24 PM-04:15 PM
Break

04:15 PM-04:51 PM
HC-08. Crystalline and Magnetic Symmetry Driven Spin Current Anisotropy in a Collinear Antiferromagnet
P. K. Muduli
Department of Physics, Indian Institute of Technology, Delhi, New Delhi, Delhi, India

04:51 PM-05:03 PM
HC-09. Magnetism and Magnetostriction in $La_{1.5}Sr_{0.5}CoMnO_6$
M. Ramanathan, M. Marimuthu, L. Jiang
Physics, National University of Singapore, Singapore, Singapore

05:03 PM-05:15 PM
HC-10. Laterally Differentiated Polymorphs: A Route to Magnetoelectric Garnets
P. E. Lauer[1], O. Wojewoda[1], K. Hayashi[2], Y. Kunai[1], C. A. Ross[1]
[1]MIT, Cambridge, Massachusetts, United States, [2]Nagoya University, Nagoya, Japan

05:15 PM-05:27 PM
HC-11. Depth-Resolved Profile of the Interfacial Ferromagnetism in CaMnO3/$CaRuO_3$ Superlattices
J. R. Paudel[1, 2], A. Mansouri Tehrani[3], M. Terilli[4], M. Kareev[4], J. Grassi[2], R. K. Sah[2], L. Wu[4], V. N. Strocov[6], C. Klewe[1], P. Shafer[5, 1], J. Chakhalian[4], N. A. Spaldin[3], A. X. Gray[2]
[1]Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, California, United States, [2]Physics Department, Temple University, Philadelphia, Pennsylvania, United States, [3]Materials Theory, ETH Zurich, Zurich, Switzerland, [4]Department of Physics and Astronomy, Rutgers University, Piscataway, New Jersey, United States, [5]NSLS II, Brookhaven National Laboratory, Upton, New York, United States, [6]Swiss Light Source, Paul Scherrer Institute, Villigen, Switzerland

SESSION HD: HARD MAGNETIC MATERIALS III: AI-DRIVEN DESIGN AND ENGINEERING OF PERMANENT MAGNETS
Chair(s): T. Kim, *Korea Institute of Materials Science, Changwon, Korea (the Republic of)*
Friday, November 6, 2026
02:00 PM-05:30 PM
Coral 2

02:00 PM-02:36 PM
HD-01. AI-accelerated Microstructure Modeling and Design of Permanent Magnets
J. Hu
Materials Science and Engineering, University of Wisconsin-Madison, Madison, Wisconsin, United States

02:36 PM-02:48 PM
HD-02. Landscape of Permanent Magnet Discovery
D. Parker, N. Pokhrel
ORNL, Oak Ridge, Tennessee, United States

02:48 PM-03:00 PM
HD-03. A Machine Learning Framework for Magnetic Candidate Discovery in Cerium-Based Compounds
T. Lamichhane
Engineering Physics, University of Central Oklahoma, Oklahoma City, Oklahoma, United States

03:00 PM-03:12 PM

HD-04. Search for rare-earth-free permanent magnets using first-principles calculations and machine learning

M. Werwinski[1], J. Snarski-Adamski[1], J. Rychly-Gruszecka[1], J. Marciniak[2, 1], W. Marciniak[2, 3, 1], P. Palczynski[1]
[1]Department of Theory of Nanostructures and Quantum Materials, Institute of Molecular Physics of the Polish Academy of Sciences, Poznan, Poland, [2]Department of Physics and Astronomy, Uppsala University, Uppsala, Sweden, [3]Faculty of Materials Engineering and Technical Physics, Poznan University of Technology, Poznan, Poland

03:12 PM-03:24 PM

HD-05. Analysis of Site Stability for Substitutional Elements in $Sm_2Fe_{17}M_x$ using Neural Network Potential

Y. Tatetsu[1], Y. Hirayama[2]
[1]University Center for Liberal Arts Education, Meio University, Nago, Okinawa, Japan, [2]National Institute of Advanced Industrial Science and Technology, Moriyama, Nagoya, Japan

03:24 PM-03:36 PM

HD-06. High-Throughput Design and Discovery of Novel Magnetic Nitrides

R. W. Smaha
Materials Science Center, National Laboratory of the Rockies, Golden, Colorado, United States

03:36 PM-03:48 PM

HD-07. Developing state-of-the-art machine learning models in search of rare-earth-free permanent magnets

P. J. Palczynski, M. Werwinski
Institute of Molecular Physics Polish Academy of Sciences, Poznan, Wielkopolska, Poland

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM

HD-08. Interstitial Boron Driven Magnetic Hardening in FeCo Alloy

B. Narangerel[1], U. Amanjal[2], K. Baatartsogt[2], U. Enkhnaran[2], M. Adiya[1], O. Tumentsereg[1], J. Narmandakh[2], D. Odkhuu[1]
[1]Incheon National University, Incheon, Korea (the Republic of), [2]Mongolian Academy of Sciences, Ulaanbaatar, Mongolia

04:27 PM-04:39 PM

HD-09. Orientation-dependent perpendicular magnetic anisotropy in epitaxial Mn_4N thin film on MgO substrate

K. Imamura[1], R. Kuwayama[1], S. Isogami[2], M. Ohtake[1]
[1]Yokohama National University, Yokohama, Japan, [2]National Institute for Materials Science (NIMS), Tsukuba, Japan

04:39 PM-04:51 PM

HD-11. Thermally Activated Flux Loss of Sintered Nd−Fe−B Magnets under External Opposing Fields

W. Tang[1, 2], J. Wang[1], M. J. Kramer[1], J. Cui[1, 2]
[1]Ames National Laboratory, Ames, Iowa, United States, [2]Iowa State University, Ames, Iowa, United States

SESSION HE: EMERGENT MAGNETIC FUNCTIONALITIES IN THIN FILMS AND NANOSTRUCTURES
Chair(s): Y. Ichiyanagi, *Engineering Science, The University of Osaka, Yokohama, Japan*
Friday, November 6, 2026
02:00 PM-05:30 PM
South Pacific 1/2

02:00 PM-02:12 PM
HE-03. Magnetic Nanorod Array Formed Through Bottom-Up Polyol Synthesis and Magnetic-Field Assisted Assembly for Microwave Applications
S. Fultz-Waters[1], W. He[2], S. Alaei[3], J. T. Bryan-Kim[1], J. A. Yang[4], Y. Suzuki[5, 1], Y. Lee[5, 2], W. Tsai[1], E. Pop[4, 1], S. X. Wang[1, 4]
[1]Department of Materials Science and Engineering, Stanford University, Stanford, California, United States, [2]SLAC National Accelerator Laboratory, Stanford University, Stanford, California, United States, [3]Department of Physics, Stanford University, Stanford, California, United States, [4]Department of Electrical Engineering, Stanford University, Stanford, California, United States, [5]Department of Applied Physics, Stanford University, Stanford, California, United States

02:12 PM-02:24 PM
HE-05. Growth and properties of $NiCo_2O_4$ films on $MgAl_2O_4$/Si(001): Relationship of the magnetic properties with structural strain and defects
S. Sugiyama[1], M. Tanaka[1, 2, 3], R. Nakane[1, 2, 4]
[1]Deptartment of Electrical Engineering and Information Systems, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, [2]Center for Spintronics Research Network (CSRN), The University of Tokyo, Bunkyo-ku, Tokyo, Japan, [3]Institute for Nano Quantum Information Electronics, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, [4]Systems Design Lab (d.lab), The University of Tokyo, Bunkyo-ku, Tokyo, Japan

02:24 PM-02:36 PM
HE-06. Epitaxial Growth of Rare Earth High Entropy Alloys
K. Dumesnil[1, 2, 3], J. Ledieu[1, 2, 3], M. Emo[1, 2, 3], S. Migot[1, 2, 3], S. Semsari Parapari[4], S. Sturm[4], P. Kozelj[4], V. Fournee[1, 2, 3]
[1]Institut Jean Lamour, Nancy, France, [2]Université de Lorraine, Nancy, France, [3]CNRS, Nancy, France, [4]Jozef Stefan Institute, Ljubljana, Slovenia

02:36 PM-02:48 PM
HE-07. Comparative study of nitrogen-induced phase formation in Co-N and Fe-N epitaxial thin films on MgO(001)
K. Imamura[1], K. Abe[1], S. Isogami[2], M. Ohtake[1]
[1]Yokohama National University, Yokohama, Japan, [2]National Institute for Materials Science (NIMS), Tsukuba, Japan

02:48 PM-03:00 PM
HE-08. Anisotropy Modulation and Strain Analysis in Yttrium Iron Garnet and Lutetium Iron Garnet Superlattices with Nanometer Scale Layers
T. P. Grossmark, E. Park, C. Chang, F. Ross, C. A. Ross
Materials Science and Engineering, The Massachusetts Institute of Technology, Cambridge, Massachusetts, United States

03:00 PM-03:12 PM
HE-09. Thermal annealing under oblique magnetic field for controlling interlayer chiral coupling in ferromagnetic multilayers
Y. Hibino, T. Taniguchi, T. Yamamoto, H. Kubota, S. Yuasa, K. Yakushiji
Research Institute for Hybrid Functional Integration, National Institute of Advanced Industrial Science and Technology, Tsukuba, Ibaraki, Japan

03:12 PM-03:24 PM
HE-10. Spin interactions in hybrid nanostructures composed of chiral molecules adsorbed on a magnetic substrate
L. T. Baczewski[2], S. Yochelis[1], Y. Paltiel[1]
[1]Institute of Applied Physics, Hebrew University, Jerusalem, Israel, [2]Institute of Physics Polish Academy of Sciences, Warsaw, Poland

03:24 PM-03:36 PM
HE-11. Understanding the structural origin of asymmetric interfacial interactions in nominally symmetric Pd/CoFeB/Pd multilayers
M. Singh[1], A. Khadiev[2], I. Carlomagno[3], A. Tiwari[4], s. K. Vayalil[2], D. Novikov[2], C. Meneghini[5], A. Gupta[1]
[1]Department of Physics, University of Petroleum and Energy Studies, Bidholi Campus, Dehradun, India, [2]Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany, [3]Elettra Sincrotrone Trieste, Basovizza, Trieste, Italy, [4]UV Focus Group, Enschede, Netherlands, [5]Department of Science, Roma Tre University, Rome, Italy

03:36 PM-03:48 PM
HE-12. Proposal for Ferromagnetic Memtransistor Using Interfacial Proximity Exchange Confinement in a Semiconductor Quantum Well
V. C. Rogers[1, 2], J. Incorvia[1, 2]
[1]Chandra Dept. of Electrical and Computer Engineering, University of Texas at Austin, Austin, Texas, United States, [2]Microelectronics Research Center, The University of Texas at Austin, Austin, Texas, United States

SESSION HF: SKYRMIONS
Chair(s): Y. Zhou, *The Chinese University of Hong Kong, Shenzhen, Shenzhen, Guangdong, China*
Friday, November 6, 2026
02:00 PM-05:30 PM
South Pacific 3/4

02:00 PM-02:36 PM
HF-01. Manipulation of skyrmions by insertion layer
H. Yuasa, Y. Kurokawa, L. Zhang, T. C. Cheng, K. Yamashita
Kyushu University, Fukuoka, Japan

02:36 PM-02:48 PM
HF-03. Domain-Wall-Induced Skyrmion Attraction for Magnetic Memory Applications
M. Kameda[1, 2], Y. Kawaguchi[2, 3]
[1]Institute for Materials Research, Tohoku University, Sendai, Japan, [2]Department of Applied Physics, Nagoya University, Nagoya, Japan, [3]Research Center for Crystalline Materials Engineering, Nagoya University, Nagoya, Japan

02:48 PM-03:00 PM
HF-04. Magnetic Skyrmion Interacting with Optical Skyrmion
L. Bo, M. Mochizuki
Waseda University, Tokyo, Japan

03:00 PM-03:12 PM
HF-05. Magnetic Force Microscopy Signatures of Higher-Order Skyrmions and Antiskyrmions
S. Koraltan[1], J. Sunny[2], T. Karaman[2], R. Peremadathil-Pradeep[3], E. Darwin[3], F. Buettner[2], D. Suess[4], H. J. Hug[3], M. Albrecht[2]
[1]TU Wien, Vienna, Austria, [2]Uni Augsburg, Augsburg, Germany, [3]EMPA, Zurich, Switzerland, [4]Uni Wien, Vienna, Austria

03:12 PM-03:24 PM

HF-06. Unwinding Skyrmions in Three Dimensions Through Vortices and Monopoles

M. Henderson[1], D. Kurebayashi[2], B. Heacock[3], W. Chen[3], C. Clark[3], D. Cory[4], D. Sarenac[5], S. Watson[3], J. S. White[6], L. DeBeer-Schmitt[1], O. Tretiakov[2], D. Pushin[7]

[1]Neutron Scattering Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, [2]Physics, University of New South Wales, Sydney, New South Wales, Australia, [3]Center for Neutron Research, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, [4]Chemistry, University of Waterloo, Waterloo, Ontario, Canada, [5]Physics, University at Buffalo, Buffalo, New York, United States, [6]Center for Neutron and Muon Sciences, Paul Scherrer Institute, Villigen, Aargau, Switzerland, [7]Physics, University of Waterloo, Waterloo, Ontario, Canada

03:24 PM-03:36 PM

HF-07. Direct Time-Resolved Imaging of Collective Dynamics in Antiferromagnetic Skyrmion Lattices

T. Dohi[1, 2], M. Bhukta[2], K. Leutner[2], M. Syskaki[2], F. Kammerbauer[2], D. Tran[2], S. Wintz[3, 4], M. Weigand[3, 4], R. Frömter[2], M. Kläui[2]

[1]Research Institute of Electrical Communication (RIEC)), Tohoku University, Sendai, Miyagi, Japan, [2]Institut für Physik, Johannes Gutenberg-Universität Mainz, Mainz, Germany, [3]Max Planck Institute for Intelligent Systems, Stuttgart, Germany, [4]Materialien und Energie GmbH, Helmholtz-Zentrum Berlin, Berlin, Germany

03:36 PM-03:48 PM

HF-08. Reliable Switching of Skyrmion Polarity in [Pt (3 nm)/Co (0.8 nm)/Ta (4 nm)]$_{15}$ Multilayered structures

M. Kang[1, 2], H. Han[3], M. Im[1], K. Lee[2]

[1]Center for X-ray Optics, Lawrence Berkeley National Laboratory, Berkeley, California, United States, [2]Ulsan National Institute of Science and Technology, Ulsan, Korea (the Republic of), [3]Korea National University of Transportation, Chungju, Korea (the Republic of)

03:48 PM-04:15 PM
Break

04:15 PM-04:27 PM

HF-09. Bias-engineered synthetic antiferromagnets hosting sub-20 nm zero-field skyrmions at room temperature

E. Darwin[1], R. Tomasello[2], R. Peremadathil-Pradeep[1, 3], M. Carpentieri[2], G. Finocchio[4], H. J. Hug[1, 3]

[1]Empa, Dübendorf, Switzerland, [2]Politecnico di Bari, Bari, Italy, [3]University of Basel, Basel, Switzerland, [4]University of Messina, Messina, Italy

04:27 PM-04:39 PM

HF-10. Skyrmions induced and suppressed by curvilinear Defects observed by MFM

H. J. Hug[1, 2], E. Darwin[1], D. Rothhardt[1, 2], R. Peremadathil-Pradeep[1, 2], L. Berchialla[3, 4], A. Hrabec[4]

[1]Magnetic and Functional Thin Films, Empa, Duebendorf, Switzerland, [2]Department of Physics, University of Basel, Basel, Switzerland, [3]Empa, Duebendorf, Switzerland, [4]PSI, Villigen, Switzerland

04:39 PM-04:51 PM

HF-11. Hardware Implementation of Homeostasis in a Magnetic Skyrmion-based Spiking Neuron Unit

S. Yang[1], K. Moon[1], T. Ju[1, 2], J. Son[1], T. Kim[3], Y. Jeong[3], B. Park[4], S. Park[2], C. Hwang[1]

[1]Quantum Technology Institute, Korea Research Institute of Standards and Science, Daejeon, Korea (the Republic of), [2]Department of Physics, Pusan National University, Busan, Korea (the Republic of), [3]Center for Neuromorphic Engineering, Korea Institute of Science and Technology, Seoul, Korea (the Republic of), [4]Department of Physics, Konkuk University, Seoul, Korea (the Republic of)

04:51 PM-05:03 PM

HF-12. Light-Driven Skyrmion Crystal Generation in Plasmonic Metasurfaces Through the Inverse Faraday Effect

X. Yang[1], T. da Câmara Santa Clara Gomes[2], N. Reyren[4], J. Gartside[3], M. Mivelle[5]
[1]Dalian University of Technology, Dalian, China, [2]Instituto de Engenharia de Sistemas E Computadores – Microsistemas e Nanotecnologias, Lisbon, Portugal, [3]Imperial College of London, London, United Kingdom, [4]Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, CNRS, Paris, France, [5]CNRS/Sorbonne University, Paris, France

05:03 PM-05:15 PM

HF-13. Magnetic Skyrmions in MnSi and MnSi/(Fe,Co,Mn)Si Thin-Films

C. C. Buchanan[1], N. Liyanage[2], M. A. Maben[1], M. Henderson[3], L. DeBeer-Schmitt[3], D. A. Gilbert[1, 2]
[1]Materials Science and Engineering, University of Tennessee, Knoxville, Knoxville, Tennessee, United States, [2]Physics and Astronomy, University of Tennessee, Knoxville, Knoxville, Tennessee, United States, [3]Neutron Scattering Division, Oak Ridge National Lab, Oak Ridge, Tennessee, United States

05:15 PM-05:27 PM

HF-14. Imaging skyrmion phases - from topological phase transitions to flow dynamics phases

R. Gruber, M. Bhukta, J. Rothörl, S. M. Fröhlich, M. A. Brems, K. Leutner, D. Tran, S. Krishnia, R. Frömter, P. Virnau, M. Kläui
Physics, Johannes Gutenberg University Mainz, Mainz, Germany

SESSION HG: MAGNONICS III

Chair(s): S. Viola Kusminskiy, *RWTH Aachen University, Aachen, Germany*
Friday, November 6, 2026
02:00 PM-05:30 PM
Sea Pearl

02:00 PM-02:36 PM

HG-01. Nanosecond Phase Ordering in an Ultra-Large Spin Hall Nano-Oscillator Lattice: Towards Ultra-Fast Ising Machines

N. Behera[1, 4], A. Chaurasiya[1], A. Kumar[1, 2, 3], L. Bainsla[1, 5], A. Litvinenko[1, 6], R. Khymyn[1], A. A. Awad[1, 2, 3], J. Akerman[1, 2, 3]
[1]Department of Physics, University of Gothenburg, Gothenburg, Sweden, [2]Research Institute of Electrical Communication, Tohoku University, Sendai, Japan, [3]Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan, [4]School of Basic Sciences, Indian Institute of Technology Bhubaneswar, Jatani, India, [5]Department of Physics, Indian Institute of Technology Ropar, Rupnagar, India, [6]Department of Physics, Oakland University, Rochester Hills, Michigan, United States

02:36 PM-02:48 PM

HG-02. Study of Static and Dynamical Properties of Topological Magnetic Vortices with Spin Center in hBN

E. Gomes da Silva[1], H. A. Bukhari[1], C. Patrickson[2], M. Garman[2], P. S. Keatley[2], I. Luxmoore[2], D. R. Candido[1]
[1]Physics and Astronomy, University of Iowa, Iowa City, Iowa, United States, [2]University of Exeter, Exeter, United Kingdom

02:48 PM-03:00 PM

HG-03. Current-Controlled Selection of Synchronization States in Coupled Spin-Torque Oscillators with Modified Free Layers

K. Horizumi[1], T. Chiba[2], T. Komine[1]
[1]Ibaraki University, Hitachi, Ibaraki-ken, Japan, [2]Yamagata University, Yonezawa, Yamagata, Japan

03:00 PM-03:12 PM

HG-04. Current-Control of Edge of Chaos in Magnetic Tunnel Junctions under Thermal Fluctuations

R. Tatsumi[1, 2], S. Miwa[3], H. Matsueda[1], T. Chiba[2, 1]
[1]Applied Physics, Tohoku University, Sendai, Japan, [2]Information Science and Technology, Yamagata University, Yonezawa, Japan, [3]The University of Tokyo, Tokyo, Japan

03:12 PM-03:24 PM
HG-05. Spin-Hall Nano-Oscillators Synchronization Mediated by Magnetoelastic Interactions
Y. Lai[2], P. Radhakrishnan[2], E. Savostin[1, 3], Z. Zhang[4], E. Gong[4], A. Hoffmann[4], V. Lomakin[1, 5, 3], A. D. Kent[2]
[1]Center for Memory and Recording Research, University of California, San Diego, La Jolla, California, United States, [2]Center for Quantum Phenomena, Department of Physics, New York University, New York, New York, United States, [3]Program in Materials Science and Engineering, University of California, San Diego, La Jolla, California, United States, [4]Materials Research Laboratory and Department of Materials Science and Engineering, The Grainger College of Engineering, University of Illinois Urbana-Champaign, Champaign, Illinois, United States, [5]Department of Electrical and Computer Engineering, University of California, San Diego, La Jolla, California, United States

03:24 PM-03:36 PM
HG-06. Influence of interfacial magnetic pinning on standing spin waves in $La_{1-x}Sr_xMnO_3$ thin films
R. Arakawa[1], S. Komori[2], T. Taniyama[1]
[1]Department of Physics, Nagoya Univeristy, Nagoya, Aichi, Japan, [2]Department of Physics and Electronics, Osaka Metropolitan University, Sakai, Osaka, Japan

03:36 PM-03:48 PM
HG-07. Spin-Photon Interaction: Enhancing and Suppression of Photon-Magnon Hybridisation through Collective Effects
S. Verma, A. Maurya, R. Singh, B. Bhoi
Department of Physics, Indian Institute of Technology (BHU) Varanasi, Varanasi, Uttar Pradesh, India

03:48 PM-04:15 PM
Break

04:15 PM-04:51 PM
HG-08. Non-Hermitian coherent control and Floquet physics with magnon-polaritons
N. J. Lambert[1, 2], A. Schumer[3], L. Hackner[1, 2], J. Longdell[1, 2], S. Rotter[3], H. Schwefel[1, 2]
[1]University of Otago, Dunedin, Otago, New Zealand, [2]The Dodd–Walls Centre for Photonic and Quantum Technologies, Dunedin, Otago, New Zealand, [3]Institute for Theoretical Physics, TU Wien, Vienna, Austria

04:51 PM-05:03 PM
HG-09. Deeply nonlinear magnon-photon hybrid excitation
D. Wagle, A. Rai, B. Jungfleisch
University of Delaware, Newark, Delaware, United States

05:03 PM-05:15 PM
HG-10. Predicting the future with magnons: Forecasting chaotic time series with reservoir computing
Z. Xiong[1, 2], C. Heins[1, 2], T. Devolder[3], F. Kammerbauer[4], M. Kläui[4], J. Fassbender[1, 2], H. Schultheiss[1], K. Schultheiss[1]
[1]Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany, [2]Technische Universität Dresden, Dresden, Germany, [3]Centre de Nanosciences et de Nanotechnologies, CNRS, Université Paris-Saclay, Paris, France, [4]Institute of Physics, Johannes Gutenberg University Mainz, Mainz, Germany

05:15 PM-05:27 PM
HG-11. Perspectives on inverse-design magnonics
F. Vilsmeier, F. Bruckner, C. Abert, D. Suess, A. Chumak
University of Vienna, Vienna, Austria

SESSION HP: MAGNETICS FOR POWER ELECTRONICS AND CONTROL (POSTER SESSION)
Chair(s): N. Lupu, *National Institute of R&D for Technical Physics, Iasi, Romania*
Friday, November 6, 2026
03:00 PM-06:00 PM
Coral 4

HP-01. Drive Cycle–Aware Optimization of Traction Motors for Less-Critical Magnet Substitutes
A. Baghel, I. C. Nlebedim
Ames National Laboratory, Critical Materials Innovation Hub, Ames, Iowa, United States

HP-02. GCN-Based Finite Difference Model and Electromagnetic Performance Analysis of Motors
H. Wang, Y. Du, X. Zhu
Jiangsu University, Zhenjiang, China

HP-04. Optimal Design of an Interior Permanent Magnet Synchronous Motor Based on a Nonlinear Magnetic Equivalent Circuit Considering Torque Density
C. W. Choi[1], S. Kim[1], Y. Yoon[1], H. Yu[1], S. Yoon[1], K. Shin[2], J. Choi[1]
[1]Chungnam National University, Daejeon, Korea (the Republic of), [2]Changwon National University, Changwon, Korea (the Republic of)

HP-06. Nonlinear Magnetic Equivalent Circuit Modeling and Demagnetization Evaluation of a Ferrite Magnet Axial Flux Permanent Magnet Machine
M. Kim[1], S. Kim[1], S. Woo[1], J. Park[2], J. Choi[2], K. Shin[1]
[1]Changwon National University, Changwon, Korea (the Republic of), [2]Chungnam National University, Daejeon, Korea (the Republic of)

HP-07. Artificial Neural Network-Based Efficiency Map Prediction of an Inverter-Fed Permanent Magnet-Assisted Synchronous Reluctance Motor Considering the Power Electronics System
W. Lee[1], M. Kim[1], M. Seo[1], H. Lee[1], K. Yu[2], J. Choi[2], K. Shin[3]
[1]Department of Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), [2]Department of Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [3]Department of AI Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

HP-08. Integrated Electromagnetic and NVH Design Framework for a PMa-SynRM Based on Multi-Variable and Multi-Objective Optimization
M. Seo[1], M. Kim[1], W. Lee[1], H. Lee[1], K. Yu[2], J. Choi[2], K. Shin[3]
[1]Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), [2]Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), [3]AI Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

HP-09. Nonlinear Reluctance Network Model of an Interior Permanent Magnet Synchronous Motor with Magductance for Core Loss Effect
G. Shin[1], G. Lee[1], M. Kim[1], S. Kim[2], J. Choi[2], K. Shin[1]
[1]Changwon National University, Changwon, Korea (the Republic of), [2]Chungnam National University, Daejeon, Korea (the Republic of)

HP-10. Temperature Dependent Radial Loss Correction for Quasi-3D Electro-Thermal Analysis of Axial Flux Permanent Magnet Motors
S. Woo[1], S. Kim[1], M. Kim[1], J. Park[3], K. Shin[2], J. Choi[3]
[1]Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), [2]AI Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of), [3]Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of)

HP-15. Design of a Consequent Pole Slotless Motor Applying Asymmetric Pole
D. Choi, H. Han, D. Shin, S. Jeon, W. Kim
Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of)

HP-16. EV Traction Motor Design Based on Series-Parallel Switching Control of a Multi-Stator Multi-Rotor Coreless PCB AFPM
D. Choi, Y. Lim, C. Lee, S. Park, W. Kim
Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of)

SESSION HQ: ALTERMAGNETIC, ANTIFERROMAGNETIC, TERAHERTZ AND SUPERCONDUCTING SPINTRONICS II (POSTER SESSION)

Chair(s): J. G. Athas, *Electrical and Computer Engineering, Northwestern University, Chicago, Illinois, United States*
Friday, November 6, 2026
03:00 PM-06:00 PM
Coral 4

HQ-01. Magnetism and Magnetocaloric Effect in GdRhIn
A. A. Maz[1, 2], S. Gupta[2, 1], R. Kumar[2, 1]
[1]SEAS, Bennett University, Greater Noida, Uttar Pradesh, India, [2]Physics, Bennett University, Greater Noida, Uttar Pradesh, India

HQ-02. Universal Enhancement of Current-Induced Domain Wall Velocity in the Short-Pulse Regime in GdFe/Pt Wires
T. Funae, K. Tanabe, H. Awano
Graduate School of Engineering, Toyota Technological Institute, Nagoya, Aichi, Japan

HQ-03. Stacking Order-Dependent Magnetic Behavior in Ta-Seeded TbCo Gradient Ferrimagnetic Structures
L. Ye[1, 2], X. Jiang[1, 2], Y. Yao[1, 2], C. Lee[1, 2], T. Wu[1, 2]
[1]Graduate School of Materials Science, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan, [2]Taiwan SPIN Research Center, , National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan

HQ-04. Thickness dependence of self-spin swapping with interfacial Rashba and bulk effects
G. Han, K. Kim, S. Jeon, S. Choe
Seoul National University, Seoul, Korea (the Republic of)

HQ-05. Spin Pumping into $[Nb/Ta/V]_n$ Superconductor Without Inversion Symmetry
S. Hirata[1], R. Kawarazaki[2], R. iijima[1], F. Tokoro[1], T. Mandokoro[1], H. Matsuki[1, 3], R. Hisatomi[1, 3], S. Karube[1, 3], Y. Shiota[1, 3], T. Ono[1, 3, 4]
[1]Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan, [2]Research Institute of Electrical Communication, Tohoku University, Sendai, Miyagi, Japan, [3]Center for Spintronics Research Network, Kyoto University, Uji, Kyoto, Japan, [4]International Center for Synchrotron Radiation Innovation Smart, Tohoku University, Sendai, Miyagi, Japan

HQ-06. Extrinsic Altermagnetic Spin-Splitting Torque in RuO_2 (101) Thin Film
J. Seo, E. Kim, J. Hur, D. Kim, B. Park
Department of Materials Science and Engineering, KAIST, Daejeon, Korea (the Republic of)

HQ-07. Investigation of spin-split torque in RuO_2 epitaxial thin film on miscut substrate
S. Kim, C. You
DGIST, Daegu, Korea (the Republic of)

HQ-08. Stabilizing Out-of-Plane Magnetization in Thick Co Using Enhanced Exchange Fields
B. Jamshed, S. Das, S. Piramanayagam
School of Physics and Mathematics, Nanyang Technological University, Singapore, Singapore

HQ-09. Permanent Electride Magnets Induced by Quasi-Atomic Non-Nucleus-Bound Electrons

J. Hwang[1], S. Lee[2], K. Lee[1]
[1]Yonsei University, Seoul, Korea (the Republic of), [2]Kongju University, Cheonan, Korea (the Republic of)

HQ-10LB. Ferroelectric switchable altermagnetic-like compensated ferrimagnets with charge ordering

X. Yang
Southeast University, Naniing, JIANGSU , China

HQ-11. Interface engineering in Co/Tb/Co synthetic ferrimagnets to host room temperature skyrmions

R. Kaur[1], S. Gajarao[1], A. Haldar[2], C. Murapaka[1]
[1]Materials Science and Metallurgical Engineering, Indian Institute of Technology Hyderabad, Hyderabad, Telangana, India, [2]Physics, Indian Institute of Technology Hyderabad, Hyderabad, Telangana, India

HQ-12. Observation of double sign changes in temperature dependent anomalous Hall effect of moderately strained thulium iron garnet/ platinum heterostructure

N. Yamashita[3], I. P. Cools[2], L. Yan[1], J. Xu[1], D. P. Dubey[2], S. P. Dash[2]
[1]Graduate School of Information Science and Electrical Engineering, Kyushu Univeristy, Fukuoka, Fukuoka, Japan, [2]Chalmers University of Technology, Gothenberg, Sweden, [3]Faculty of Information Science and Electrical Engineering, Kyushu University, Fukuoka, Japan

HQ-13. Spin transport in a van der Waals triangular lattice antiferromagnet $NiGa_2S_4$ as a candidate for Z_2-vortex ordering

Y. Yamaguchi[1], N. Jiang[1, 6, 7], D. Takafuji[1], K. Ueda[1, 6, 7], J. Matsuno[1, 6, 7], T. Kikkawa[2], Y. Nambu[3], K. Aoyama[5], H. Kawamura[4], Y. Niimi[1, 6, 7]
[1]Department of Physics, The University of Osaka, Toyonaka, Osaka, Japan, [2]Advanced Science Research Center, Japan Atomic Energy Agency, Tokai, Japan, [3]Institute for Integrated Radiation and Nuclear Science, Kyoto University, Kyoto, Japan, [4]Center for Life Photonic Innovation, Kobe University, Kobe, Japan, [5]Graduate School of Advanced Science and Engineering, Hiroshima University, Hiroshima, Japan, [6]Center for Spintronics Research Network, The University of Osaka, Toyonaka, Japan, [7]Institute for Open and Transdisciplinary Research Initiatives, The University of Osaka, Osaka, Japan

HQ-14. Evaluation of Magnetic Properties of $Mn_{4-x}Pd_xN$ Epitaxial Thin Films and Demonstration of Magnetization Compensation at Room Temperature

S. Akita[1], T. Yasuda[1], K. Amemiya[2], T. Suemasu[1]
[1]University of Tsukuba, Tsukuba, Japan, [2]High Energy Accelerator Research Organization (KEK), Tsukuba, Japan

HQ-15. Three-Dimensional Spin Transport in α-Fe_2O_3 (0001)/$TaIrTe_4$ Heterostructures

J. Chen[1], H. Liu[1], W. Tan[1], T. Qian[2], W. Liao[1], T. Wang[3], I. K. Schuller[3], N. Ni[2], J. Shi[1]
[1]Department of Physics and Astronomy, University of California, Riverside, Riverside, California, United States, [2]Department of Physics and Astronomy, University of California, Los Angeles, Los Angeles, California, United States, [3]Department of Physics, University of California, San Diego, La Jolla, California, United States

HQ-16LB. Energetics and Octupole-Transfer-Induced Dynamics of Cubic Chiral Antiferromagnets

S. Khare[1], S. Konakanchi[1], J. Kang[2], M. Hamdi[3], P. Khalili Amiri[2], P. Upadhyaya[1]
[1]Electrical and Computer Engineering, Purdue University, West Lafayette, Indiana, United States, [2]Electrical and Computer Engineering, Northwestern University, Evanston, Illinois, United States, [3]Physics & Astronomy, UCLA, Los Angeles, California, United States

SESSION HR: ADVANCES IN FUNCTIONAL MAGNETISM: MATERIALS AND APPLICATIONS (POSTER SESSION)

Co-Chair(s): A. Lasheras, *Physics, University of the Basque Country, Leioa, Spain* and A. A. Mendonça, *Instituto de Física Gleb Wataghin, Universidade Estadual de Campinas, Campinas, São Paulo, Brazil*

Friday, November 6, 2026

03:00 PM-06:00 PM

Coral 4

HR-01. Magnetic and Magnetocaloric Properties of Ti-Substituted GdMnO3 Single Crystals

M. Ashraf[1], Z. Molčanová[2], M. Mihalik[1], J. Pospíšil[3]

[1]Department of Magnetism, Institute of Experimental Physics SAS, Kosice, Slovakia, [2]Institute of Materials Research, SAS, Kosice, Slovakia, [3]Faculty of Mathematics and Physics, Charles University, Prague, Czechia

HR-02. Growth and Magneto-Optical properties of CeF_3 Crystal for Broadband Applications

Z. Zhang

Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai, China

HR-03. Gilbert Damping Evaluation of 118-Layer Ce:YIG/GGG Multilayer for Magneto-Optical Devices

Y. Otsuka[1, 2], K. Fujiwara[1], T. Watanabe[3], E. Negishi[3], D. Shabaev[1, 2], K. Ishiyama[1], T. Goto[1]

[1]Research Institute of Electrical Communication, Tohoku University, Sendai, Miyagi, Japan, [2]Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan, [3]Shin-Etsu Chemical Co., Ltd., Annaka, Gunma, Japan

HR-04. Multiscale theoretical prediction of enhanced magnetocaloric performance in Fe_2P-type alloys

M. Adiya[1], B. Narangerel[1], O. Tumentsereg[1], K. Jong-Woo[2], O. Dorj[1]

[1]Department of Physics, Incheon National University, Incheon, Korea (the Republic of), [2]Korea Institute of Material Science, Changwon, Korea (the Republic of)

HR-05. Microscopic Origins of Magnetostriction Enhancement in Boron-Doped $Fe_{80}Ga_{20}$ Thin Films

Z. Zhang[1], H. Ni[1, 2], M. Lim[1], J. Lim[1], J. Zuo[1, 3], A. Schleife[1], A. Hoffmann[1]

[1]Department of Materials Science and Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, United States, [2]Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, [3]Monash Centre for Electron Microscopy, Monash University, Clayton, Victoria, Australia

HR-06. Influence of device structure on magnetoelectric coupling in laminate composites of textured Fe-Ga thin sheet and PZT

J. Liu[2, 1], Z. He[2, 1], S. Hu[2, 1], Y. Sha[3], L. Chen[2, 1], L. Zuo[3]

[1]Shenyang Key Laboratory of Advanced Structural Materials and Applications, Shenyang University of Technology, Shenyang, China, Shenyang, Liaoning Province, China, [2]School of Materials Science and Engineering, Shenyang University of Technology, Shenyang, China, Shenyang, Liaoning Province, China, [3]Key Laboratory for Anisotropy and Texture of Materials (Ministry of Education), Northeastern University, Shenyang, China, Shenyang, Liaoning Province, China

HR-07. Reversible Table Like Magnetocaloric Effect over a Broad Temperature Span in Rare-Earth-Ni Compounds Driven by Magnetic Interaction Competition

L. Zhao, A. T. Saito

National Institute for Materials Science, Tsukuba, Japan

HR-08. Seedlayer-free Ce:TbIG for Si Integrated TM Mode Magneto-Optical Isolator

B. Moghal, B. Stadler

Electrical and Computer Engineering, University of Minnesota, Minneapolis, Minnesota, United States

HR-09. Magnetic-Field Control of Transition Pathways in Eu_2In: A Giant Cryogenic Magnetocaloric Material

A. Kumar[4], A. Biswas[4], T. A. Tyson[1], D. Haskel[2], C. J. Pollock[3], Y. Mudryk[4]
[1]Department of Physics, New Jersey Institute of Technology, Newark, New Jersey, United States, [2]Advanced Photon Source, Argonne National Laboratory, Lemont, Illinois, United States, [3]Cornell High Energy Synchrotron Source, Wilson Laboratory, Cornell University, Ithaca, New York, United States, [4]Ames National Laboratory, U.S. Department of Energy, Iowa State University, Ames, Iowa, United States

HR-10. The effect of thickness on the soft magnetic properties and transducers performance of Fe-Ga alloy

S. Hu[1, 2, 3], Z. He[1, 2], H. Hao[3], J. Liu[1, 2], T. Yao[3], X. Zhu[4], L. Chen[1, 2]
[1]School of Materials Science and Engineering, Shenyang University of Technology, Shenyang, Liaoning, China, [2]Shenyang Key Laboratory of Advanced Structural Materials and Applications, Shenyang, Liaoning, China, [3]State Key Laboratory of Baiyunobo Rare Earth Resource Researches and Comprehensive Utilization, Baotou Research Institute of Rare Earths, Baotou, Inner Mongolia, China, [4]Institute of Metal Research, Chinese Academy of Sciences, Shenyang, Liaoning, China

HR-11. Structural and magnetic properties of Ti doped $Ni_{2.3}Mn_{0.7}$ Ga Heusler Alloy

T. F. McKenzie[1], K. N. Ndaru[1], R. Chapai[2], M. Khan[1]
[1]Physics, Miami University, Oxford, Ohio, United States, [2]Physics, Norfolk State University, Norfolk, Virginia, United States

HR-12. Magnetic Tunnel Junctions Weds Magnetic Molecules: Producing Room Temperature Spin Photovoltaic Effect and Anomalous Magnetoresistance

P. Tyagi
University of the District of Columbia, Washington, District of Columbia, United States

HR-13. Ni-Mn-In Heusler Alloys Ribbon for Magnetocaloric Application

B. Nguyen[1], P. Ari-gur[1], S. Jabran[1], R. D. Noebe[2], I. Felner[3], S. Kaczmarek[1], A. S. Madiligama[4]
[1]Mechanical and Aerospace Engineering, Western Michigan University, Kalamazoo, Michigan, United States, [2]NASA Glenn Research Center, Cleveland, Ohio, United States, [3]Hebrew University, Jerusalem, Israel, [4]Science/Physics, Penn State DuBois, DuBois, Pennsylvania, United States

HR-14. Effect of Heat Treatment on Two Melt-Spun Ni-Mn-Ga-Si Heusler Alloys

S. Jabran[2], P. Ari-gur[2], R. D. Noebe[3], A. S. Madiligama[1]
[1]Science/Physics, Pennsylvania State University, DuBois, Pennsylvania, United States, [2]Mechanical and Aerospace Engineering, Western Michigan University, Kalamazoo, Michigan, United States, [3]NASA Glenn Research Center, Cleveland, Ohio, United States

HR-15. Thermal stability of FeCo-Ag multilayer thin films for use in magnetoelectric heterostructures for low SWAP-c magnetic field sensors

T. R. Mion, M. Staruch, K. Bussmann, P. Finkel
Material Science & Technology, US Naval Research Laboratory, Washington, District of Columbia, United States

HR-16. Crystal Electric Field Effect on Magnetic and Thermal Properties in Er−Ni Family Compounds

A. T. Saito, L. Zhao
Research Center for Magnetic and Spintronic Materials, National Institute for Materials Science, Tsukuba, Ibaraki, Japan

HR-17LB. d^0/d^{10} *B′*-Site Doping Enables Magnetic and Magnetocaloric Tuning in Gadolinium Double Perovskites

F. Berardi[1], J. M. Steele[1], H. E. Fischer[2], S. E. Dutton[1]
[1]Department of Physics - Cavendish Laboratory, University of Cambridge, Cambridge, United Kingdom, [2]Institut Laue-Langevin, Grenoble, France

HR-18LB. Magnetic and Optical Properties of $[Cu_3(vanox)_2(NO_3)_2]$ Chain Structure- a 2D Supramolecular array

P. Anand, A. Powell
Institute of Inorganic Chemistry, Karlsruhe Institute of Technology, Karlsruhe, Germany

HR-19LB. Hyperfine field spectroscopy reveals two magnetic subsystems in Fe-Mn-Ga Heusler alloy

O. Heczko[1], D. Kubaniova[1], M. Rames[1], T. Kmjec[2], V. Chlan[2]
[1]FZU - Institute of Physics, Prague, Czechia, [2]Faculty of Mathematics and Physics, Charles University, Prague, Czechia

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SESSION VP: VIRTUAL POSTERS

VP-01. Theoretical analysis of overshoot reduction in power conversion circuits using damping capacitors

D. Kim
Department of Electronic Engineering, Tech University of Korea, Siheung, Korea (the Republic of)

VP-02. Processing Optimization of Sendust Powder Cores for High-Frequency Power Electronics

M. Nguyen[1], T. Kiyota[1], Y. Endo[2], S. Yoshida[2], S. Okamoto[2]
[1]Tamura Corporation, Sendai, Miyagi, Japan, [2]Tohoku University, Sendai, Miyagi, Japan

.
., A: GB-02
., N: BR-09

A
Abad, A: BA-01
Abarca, J: FC-11
Abbas, H: BG-10, CP-12, **CP-13**, **EE-05**
Abbassi, L: AE-07
Abbott, C: FB-02
Abdizadeh Kalan, S: GE-05, **GP-07LB**
Abdou, A A.: **ER-14**
Abe, K: HE-07
Abel, F M.: EG-09, GF-10
Abert, C: BE-02, **DH-08**, ED-07, FG-04, HG-11
Abogado, E: EE-10
Abrão, J E.: BB-04
Abreu Araujo, F: AD-01, **CR-05**, CR-10
Abrosimova, G: CP-01
Abuin, M: DH-10, FP-11
Accursi, M: CD-03
Achanta, S S.: EQ-05, **HA-05**
Achinuq, B: **EE-10**
Ackers, J: CD-07
Aczel, A: GF-06
Adachi, K: GP-03
Adachi, S: **CR-15**
Adiya, M: CP-11, CP-14, HD-08, HR-04
Adriano, C: **FE-05**
Afanasiev, D: AR-13LB
Afanasiev, D: CH-03
Afsari, T: CD-10
Agarwal, S: DA-06
Aguilera, I: BC-02, FE-04
Ahmad, H: **FQ-12**
Ahmad, S: AF-12
Ahmadi, K: FA-07
Ahmadi, M: DC-02
Ahmed, R M.: GF-09
Ahmetasevic, E: FQ-16, FR-20LB
Ahn, J: AP-07, EP-11
Ahn, K: CS-10
Ahrens, V: BR-13, DG-05, GP-06
Aihemaiti, H: **DP-08**
Aislinn, P: AC-11
Ajia, S: DP-02
Akaki, M: **FQ-11**
Akashdeep, A: AF-11
Akdogan, O: ER-09, **GD-04**
Akerman, J: **HG-01**
Akita, S: **HQ-14**
Akiyama, R: **AC-07**
Alaei, S: HE-03
Alam, A: ED-10, EE-12
Alam, M: FD-09
Al Bahri, M: AR-15
Albano, D: BR-13
Alba Venero, D: DC-11
Albertini, F: **BA-03**, EB-07
Albrecht, M: HF-05
Alexandrova, A: GB-08
Alharbi, D: **CP-07**, FP-16
Alia, M: GF-09
Allen, C: FC-05
Allen, M G.: GE-03
Alling, A: **EQ-03**
Almahmoud, A: **EF-11**, GE-05
Almasy, L: DP-13
Almeida, R: EB-06, GR-11
Althammer, M: FB-06
Amakai, Y: FR-11
Amanatiadis, S: CE-10
Amanjal, U: CP-14, HD-08
Amara, S: BE-12, **CE-09**, CR-02, EA-09
Amaral, J: **EB-06**, GR-11
Ambal, K: EG-01
Amemiya, K: CB-02, HQ-14
Amin, O: CB-01
Amiya, K: AQ-16
Amoo, F: **FP-15**
An, J: EC-02, EC-06
Anadón, A: AR-10
Anand, P: **HR-18LB**
Anane, A: DH-11
Anas, M: EF-08
Ando, F: CC-15
Ando, K: EG-02
Ando, K: CR-15
Ando, R: FP-03, GF-07
Ando, Y: CE-04, DE-01
Ando, Y: AQ-06, BP-14, BR-14, CF-01, CG-03, FB-06
Andrade, L: GR-11
Andrade, P: **GP-10**
Andrei, P: FC-10, FC-12
Angayarkanni Ramamurthy, D: BD-02, BD-03
Angel, M: DH-10
Angotti, A: AR-12, CR-07, **DG-02**, DG-03, DG-06, EG-11
Anh, L: CG-07
Anikeeva, P: CD-09, HA-01
Anil Kumar, P: FQ-14
Antl, J: AE-05
Antropov, V: **AB-07**
Aoki, M: **CC-05**, CF-01
Aono, T: GF-07
AOSHIMA, K: AR-08
Aoyama, K: HQ-13
Arakawa, R: **HG-06**
Araújo, J P.: GR-11
Arava, H: **DH-01**
Aregbesola, A E.: EG-01
Arena, D A.: AF-02, AF-09, AR-16, FP-10
Ari-gur, P: HR-13, HR-14
Arima, T: CF-10, FE-10
Arisawa, H: BB-07
Arita, R: FE-10
Aronin, A: CP-01
Arpaci, S: BF-04, CA-07
Arras, R: FG-08
Arredondo-López, A: CE-01, DE-04
Artinyan, L: CD-05
Asada, H: CR-14
Asai, T: CR-15
Asakura, M: BF-06, **CF-12**
Asari, Y: **DD-12**
Ashok, A: **FR-01**
Ashraf, M: **HR-01**
Atalugama, T V.: **ER-03**
Athas, J G.: CA-07, **EA-04**
Atulasimha, J: **EA-01**, ED-06, EQ-05, FD-09
Auffret, S: CA-09, CE-01, DE-04
Awad, A A.: HG-01
Awaji, S: CP-09
Awano, H: CS-02, DR-07, **DR-16**, HQ-02
Ayers, N: **DD-03**
Aykin, A K.: **AG-13**
Azevedo, A: **BB-04**
Azhar, M: FE-02

B
Baatartsogt, K: **CP-06**, HD-08
Baba, Y: **CE-02**
Babu, S: DS-05, DS-06
Back, C H.: AG-09
Backes, C: DE-10
Backes, D: **CB-03**
Baczewski, L T.: **HE-10**
Badie, L: AG-13
Badura, A: DB-09
Bae, J: **GE-10**
Bae, K: AP-04, EC-07, EC-09
Baek, G: AG-05, AR-09, CF-07, **CH-05**
Baek, I: BB-06, **DR-10**, DR-11
Baek, J: BR-05
Baek, K: **EQ-14**
Baek, S: **AR-14**
Bagci, C: ER-09
Bagci, H: BE-12, CE-09, CR-02, EA-09
Baghel, A: **HP-01**
Bai, Y: GC-10
Bai, Y: **DR-12**
Baiao De Albuquerque, G: AA-07
Bailey, A K.: **DE-12**
Bainsla, L: HG-01
Bajpai, A: **AC-06**

Bakare, O A.: **GE-05**
Bakhshizadeh, F: CP-07, FP-16
Balachandran, T: CQ-12
Balakrishnan, G: CB-07, DC-11
Balakrishnan, P P.: DC-03
Baldino, H: **AP-12LB**, BE-04, DD-03
Baltz, V: DB-09
Balz, C: DC-06
Ban, H: BQ-01, BQ-06, BQ-14, CQ-02, CQ-11, **DQ-01**, DQ-02, DQ-06
Bandgar, P: CR-06
Banerjee, A: **AR-06**
Banerjee, T: DC-02, **DF-01**, FD-06
Bangar, H: AG-12, **BF-11**
Banjara, B: CS-07
Banshodani, T: FQ-09
Baraduc, C: CE-01, DE-04
Baral, P: DB-02
Baral, P R.: FE-10
Bardon, M: CA-03
Bardong, J: FC-15
Barker, B: FQ-12
Barman, A: AR-16
Barral, D: AE-07
Barrera, G: AD-12, DC-04
Bartkowski, M: TEST-01
Bas, D A.: CE-06
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Nakane, R: BP-13, **CR-09**, FF-02, HE-05
Nakanishi, Y: CC-15
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Nakao, H: FE-10
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Nangaku, M: EQ-15LB
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Nguyen, M: **VP-02**
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Song, M: **CA-02**
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