



# MMM 2026

71<sup>st</sup> ANNUAL CONFERENCE ON  
Magnetism and Magnetic Materials



November 2 – 6, 2026 | [www.magnetism.org](http://www.magnetism.org)



*Honolulu, Hawaii*

*Hilton Hawaiian Village Waikiki Beach Resort*

# PROGRAM BOOK

Jointly sponsored by AIP Publishing LLC  
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# SCOPE OF THE CONFERENCE

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The 71<sup>st</sup> 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.

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## CONFERENCE INFORMATION

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**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/10ei>
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### CONFERENCE MATERIALS:

- [Program Overview](#)
- [Symposia](#) and [Invited Speakers](#)
- Program Book: [Desktop Optimized](#) / [Mobile Optimized](#)
- 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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# CONFERENCE ORGANIZATION

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## CONFERENCE ORGANIZING COMMITTEE

### General Chair

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**PROGRAM COMMITTEE**  
(Name in blue indicates Team Lead)

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

| Category                                                     | First Name        | Last Name       | Institution                                                |
|--------------------------------------------------------------|-------------------|-----------------|------------------------------------------------------------|
| <b>9. Magnetic Recording, Storage and Computing</b>          | <b>Vaishnavi</b>  | <b>Kateel</b>   | <b>imec</b>                                                |
|                                                              | <b>Vitaliy</b>    | <b>Lomakin</b>  | <b>University of California, San Diego</b>                 |
|                                                              | 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                                      |
| <b>10. Sensors, High Frequency Devices and Power Devices</b> | <b>Nicoleta</b>   | <b>Lupu</b>     | <b>National Institute of R&amp;D for Technical Physics</b> |
|                                                              | Hatem             | ElBidweihi      | United States Naval Academy                                |
|                                                              | Aur lie           | Solignac        | CEA                                                        |
| <b>11. Interdisciplinary and Emerging Topics</b>             | <b>Ravi</b>       | <b>Hadimani</b> | <b>Virginia Commonwealth University</b>                    |
|                                                              | Martin            | Lonsky          | Nexperia                                                   |
|                                                              | Celia             | Sousa           | Autonomous University of Madrid                            |
|                                                              | Kai               | Wu              | University of South Florida                                |
| <b>12. Magnetic Characterization</b>                         | <b>Emmanuelle</b> | <b>Jal</b>      | <b>CNRS, Sorbonne Universit </b>                           |
|                                                              | 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          | Ichianagi        | 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                     |

## EDITORS

**Claas Abert**, *University of Vienna, Austria*  
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**Timo Kuschel**, *Johannes Gutenberg University in Mainz, Germany*  
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**J. Ping Liu**, *University of Texas at Arlington, USA*  
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**Luis M. Moreno-Ramírez**, *Universidad de Valladolid, Spain*  
**Tibor-Adrian Ovari**, *National Institute of R&D for Technical Physics, Romania*  
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**Daniel Salazar**, *BCMaterials, Spain*  
**Paola Maria Tiberto**, *Istituto Nazionale di Ricerca Metrologica, Italy*  
**Qi Wang**, *Huazhong University of Science and Technology, China*  
**Xichao Zhang**, *The Hong Kong University of Science and Technology, Hong Kong*

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**Molly Bartkowski**, Executive Secretary/Treasurer  
**Regina Mohr**, Recording Secretary  
**Melissa Patterson**, AIP Publishing Representative  
**Atsufumi Hirohata**, IEEE Magnetics Society Representative  
**IEEE and AIPP Elected Members:**

### Term expiring December 2026

Vivek Amin, Clarina Delacruz, Cindi Dennis, Atsufumi Hirohata, Mark Kief, Timo Kuschel, Nicoleta Lupu, Hans Nembach, Yayoi Takamura, Ken-ichi Uchida

### 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

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## FUTURE CONFERENCES

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[2027 INTERMAG Conference](#) » May 10 - 14, 2027 » Jeju Island, South Korea

[23<sup>rd</sup> 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

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## 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

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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<sup>1</sup>, H. Suto<sup>2</sup>, Y. Nakamura<sup>3</sup>, Y. Kanai<sup>4</sup>

<sup>1</sup>Tohoku University, Sendai, Japan, <sup>2</sup>NIMS, Tsukuba, Japan, <sup>3</sup>Ehime University, Matsuyama, Japan, <sup>4</sup>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. Ouessab

*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<sup>1</sup>, Y. Sasaki<sup>1</sup>, Y. Fan<sup>2</sup>, Y. Kubota<sup>3</sup>, J. Gadbois<sup>2</sup>, K. Hono<sup>1</sup>, Y. K. Takahashi<sup>1,4</sup>

<sup>1</sup>NIMS, Tsukuba, Japan, <sup>2</sup>Advanced Technology Development, Seagate Technology, Bloomington, Minnesota, United States,

<sup>3</sup>Recording Media Organization, Seagate Technology, Fremont, California, United States, <sup>4</sup>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<sup>2</sup>, J. Duan<sup>1</sup>, H. Sepehri-Amin<sup>2</sup>, V. Lomakin<sup>1</sup>

<sup>1</sup>ECE, University of California, San Diego, La Jolla, California, United States, <sup>2</sup>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<sup>1,2</sup>

<sup>1</sup>Physics, University of Texas at Austin, Austin, Texas, United States, <sup>2</sup>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<sup>1</sup>, Y. Liu<sup>1</sup>, P. Zhang<sup>1</sup>, J. Xiong<sup>2,3</sup>, I. Zutic<sup>1</sup>, H. Zeng<sup>1</sup>

<sup>1</sup>Physics, University at Buffalo, Buffalo, New York, United States, <sup>2</sup>Institute for Artificial Intelligence and Data Science, University at Buffalo, Buffalo, New York, United States, <sup>3</sup>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<sup>1</sup>, M. Dyer<sup>1,2</sup>, G. Darling<sup>1</sup>, M. Rosseinsky<sup>1,2</sup>

<sup>1</sup>Chemistry, The University of Liverpool, Liverpool, Merseyside, United Kingdom, <sup>2</sup>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 Metallic Magnetic Materials**

B. Xu

Tsinghua University, Beijing, China

**10:18 AM-10:45 AM**

Break

**10:45 AM-11:21 AM**

**AB-06. Inverse Design of Magnetic Materials**

H. Zhang

Technical University of Darmstadt, Darmstadt, Germany

**11:21 AM-11:33 AM**

**AB-07. Computational electronic structure-based search for stable magnetic systems: failures and successes**

V. Antropov

Ames National Laboratory, Ames, Iowa, United States

**11:33 AM-11:45 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

**11:45 AM-11:57 AM**

**AB-09. Automated design exploration of two-dimensional magnonic crystals using a combinatorial optimization approach**

R. Nagaoka<sup>1</sup>, T. Yamazaki<sup>2</sup>, C. Mitsumata<sup>3</sup>, Y. Iwasaki<sup>4</sup>, M. Kotsugi<sup>1</sup>

<sup>1</sup>Tokyo University of Science, Tokyo, Japan, <sup>2</sup>Yokohama National University, Yokohama, Japan, <sup>3</sup>University of Tsukuba, Tsukuba, Japan,

<sup>4</sup>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  $\text{CrI}_3$  and Spin-Induced Nematicity in XY-Type Magnet  $\text{NiPS}_3$**

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<sup>1</sup>, J. Lee<sup>1</sup>, S. Park<sup>2</sup>, J. Choi<sup>1</sup>

<sup>1</sup>*Center for Spintronics, Korea Institute of Science and Technology, Seoul, Korea (the Republic of)*, <sup>2</sup>*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  $1\text{T-V}_{1-x}\text{Fe}_x\text{Se}_2$  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  $\text{Fe}_3\text{GeTe}_2$ : 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<sup>1</sup>, D. Hovančík<sup>1</sup>, O. Michal<sup>2</sup>, T. Haidamak<sup>1</sup>, D. Repcek<sup>2</sup>, F. Borodavka<sup>2</sup>, P. Dolezal<sup>1</sup>, M. Veis<sup>1</sup>, S. Kamba<sup>2</sup>, M. Orlita<sup>3</sup>, V. Sechovsky<sup>1</sup>

<sup>1</sup>*Charles University, Prague, Czechia*, <sup>2</sup>*Czech Academy of Sciences, Prague, Czechia*, <sup>3</sup>*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  $\text{SrRu}_2\text{O}_6$**

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<sup>4,1</sup>, S. Sato<sup>1</sup>, Y. Miyai<sup>2</sup>, Y. Hashimoto<sup>3</sup>, J. Jung<sup>1</sup>, R. Hobara<sup>1</sup>, Y. Kumar<sup>2</sup>, A. Kumar<sup>2</sup>, S. Shimizu<sup>1</sup>, R. Minakawa<sup>1</sup>, Y. Yamamoto<sup>3</sup>, H. Tomita<sup>3</sup>, T. Tadamura<sup>3</sup>, T. Moriki<sup>3</sup>, Y. Yamada<sup>3</sup>, S. Ideta<sup>2</sup>, K. Shimada<sup>2</sup>, T. Matsushita<sup>3</sup>, S. Hasegawa<sup>1</sup>

<sup>1</sup>*The University of Tokyo, Tokyo, Japan*, <sup>2</sup>*Hiroshima University, Higashi Hiroshima, Japan*, <sup>3</sup>*Nara Institute of Science and Technology, Ikoma, Japan*, <sup>4</sup>*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<sub>2</sub> Driven by Proximity Effect of Ultrathin SmFeO<sub>3</sub>**

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<sub>2</sub> 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<sup>1</sup>, P. Aislinn<sup>1</sup>, E. Lamberton<sup>2</sup>, T. Zuehlsdorff<sup>2</sup>, A. Saenz Rodriguez<sup>3</sup>, Z. Sofer<sup>4</sup>, P. Dhagat<sup>5</sup>, O. Ostroverkhova<sup>1</sup>

<sup>1</sup>Physics, Oregon State University, Corvallis, Oregon, United States, <sup>2</sup>Chemistry, Oregon State University, Corvallis, Oregon, United States, <sup>3</sup>Mathematics, Oregon State University, Corvallis, Oregon, United States, <sup>4</sup>Inorganic Chemistry, University of Chemistry and Technology Prague, Prague, Czechia, <sup>5</sup>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<sub>2</sub>CuGe<sub>2</sub>O<sub>7</sub>**

P. Wild<sup>1</sup>, M. Dembski-Villalta<sup>1</sup>, K. Fellner<sup>1</sup>, M. Garst<sup>2</sup>, S. Mühlbauer<sup>1</sup>

<sup>1</sup>TUM / MLZ, Munich, Germany, <sup>2</sup>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<sup>1,2</sup>, N. Marchal<sup>2</sup>, F. Abreu Araujo<sup>2</sup>, J. de la Torre Medina<sup>3</sup>, L. Piraux<sup>2</sup>

<sup>1</sup>Instituto de Engenharia de Sistemas E Computadores – Microsistemas e Nanotecnologias (INESC MN), Lisbon, Portugal, <sup>2</sup>Institute of Condensed Matter and Nanosciences, Université catholique de Louvain, Louvain-la-Neuve, Belgium, <sup>3</sup>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<sup>1,2</sup>, C. Langton<sup>1</sup>, B. J. Fugetta<sup>1</sup>, D. W. Raftrey<sup>3,4</sup>, C. Fernandez-Gonzalez<sup>5</sup>, S. Satapathy<sup>3</sup>, O. Bezsmertna<sup>6</sup>, A. Sorrentino<sup>5</sup>, D. Makarov<sup>6</sup>, G. Yin<sup>1</sup>, P. Fischer<sup>3,4</sup>, K. Liu<sup>1</sup>

<sup>1</sup>Physics Department, Georgetown University, Washington, District of Columbia, United States, <sup>2</sup>Rowan University, Glassboro, New Jersey, United States, <sup>3</sup>Materials Science Division, Lawrence Berkeley National Laboratory, Berkeley, California, United States, <sup>4</sup>University of California, Santa Cruz, Santa Cruz, California, United States, <sup>5</sup>ALBA Light Source, Barcelona, Spain, <sup>6</sup>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<sup>1</sup>, B. J. Fugetta<sup>1</sup>, C. Fernandez-Gonzalez<sup>2</sup>, A. Sorrentino<sup>2</sup>, D. Bhattacharya<sup>3</sup>, P. Fischer<sup>4,5</sup>, G. Yin<sup>1</sup>, K. Liu<sup>1</sup>

<sup>1</sup>Department of Physics, Georgetown University, Washington, District of Columbia, United States, <sup>2</sup>MISTRAL Beamline, ALBA Light Source, Cerdanyola del Vallès, Spain, <sup>3</sup>Department of Electrical & Computer Engineering, Rowan University, Glassboro, New Jersey, United States, <sup>4</sup>Materials Science Division, Lawrence Berkeley National Laboratory, Berkeley, California, United States, <sup>5</sup>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<sup>1</sup>, S. Maity<sup>1</sup>, R. Pervin<sup>1</sup>, R. Medwal<sup>1</sup>, J. Vas<sup>6</sup>, Y. Fukuma<sup>2,3</sup>, H. Courtois<sup>5</sup>, C. B. Winkelmann<sup>4</sup>, A. K. Gupta<sup>1</sup>

<sup>1</sup>Department of Physics, Indian Institute of Technology, Kanpur, Uttar Pradesh, India, <sup>2</sup>Kyushu Institute of Technology, Iizuka, Japan, <sup>3</sup>Center for Neuromorphic AI Hardware, Kitakyushu, Japan, <sup>4</sup>Univ. Grenoble Alpes, CNRS, Grenoble INP, IRIG-PHELIQS, Grenoble, France, <sup>5</sup>Univ. Grenoble Alpes, CNRS, Grenoble INP, Institut Neel, Grenoble, France, <sup>6</sup>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<sup>1</sup>, K. Sangeeth<sup>1</sup>, A. Gupta<sup>2</sup>

<sup>1</sup>*School of Instrumentation, Devi Ahilya University, Indore, Madhya Pradesh, India,* <sup>2</sup>*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<sup>1</sup>, D. Martella<sup>2,4</sup>, F. Celegato<sup>1</sup>, A. Magni<sup>1</sup>, M. Coisson<sup>1</sup>, C. Parmeggiani<sup>2,4</sup>, D. Wiersma<sup>3,4</sup>, P. Tiberto<sup>1</sup>

<sup>1</sup>*Advance Materials and Life Sciences, INRIM, Torino, Italy,* <sup>2</sup>*Department of Chemistry "Ugo Schiff", Università di Firenze, Firenze, Italy,*

<sup>3</sup>*Physics, Università di Firenze, Firenze, Italy,* <sup>4</sup>*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<sub>2</sub>**

S. Paul<sup>1,2,3</sup>, G. Mattoni<sup>2</sup>, H. Matsuki<sup>4</sup>, A. Ikeda<sup>3</sup>, T. Johnson<sup>2</sup>, J. Schmalian<sup>5</sup>, C. Sow<sup>1</sup>, S. Yonezawa<sup>3</sup>, Y. Maeno<sup>2</sup>

<sup>1</sup>*Department of Physics, Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh, India,* <sup>2</sup>*Toyota Riken-Kyoto University Research Center (TRiKUC), Kyoto, Kyoto, Japan,* <sup>3</sup>*Department of Electronic Science and Engineering, Graduate School of Engineering, Kyoto University, Kyoto, Kyoto, Japan,* <sup>4</sup>*Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan,* <sup>5</sup>*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<sup>2,1</sup>, C. Swindells<sup>1</sup>, T. Santos<sup>3</sup>, G. Mihajlović<sup>3</sup>, H. T. Nembach<sup>1</sup>, M. Pufall<sup>1</sup>

<sup>1</sup>*National Institute of Standards and Technology, Boulder, Colorado, United States,* <sup>2</sup>*University of Colorado Boulder, Boulder, Colorado, United States,* <sup>3</sup>*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<sup>1</sup>, S. Rodriguez Caballero<sup>1</sup>, P. Iyer<sup>2</sup>, K. Paz Gonzalez<sup>1</sup>, K. Rova<sup>1</sup>, M. Zborowski<sup>3</sup>, P. C. Desai<sup>4</sup>, L. Tijani<sup>5</sup>, J. Chalmers<sup>2</sup>, J. Gomez-Pastora<sup>1</sup>

<sup>1</sup>Chemical Engineering, Texas Tech University, Lubbock, Texas, United States, <sup>2</sup>William G. Lowrie Department of Chemical and Biomolecular Engineering, The Ohio State University, Columbus, Ohio, United States, <sup>3</sup>Department of Biomedical Engineering, Cleveland Clinic, Cleveland, Ohio, United States, <sup>4</sup>Wake Forest School of Medicine, Levine Cancer Institute, Advocate Health, Charlotte, North Carolina, United States, <sup>5</sup>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. Fetta<sup>1</sup>, L. Abbassi<sup>1</sup>, E. Mossang<sup>1</sup>, N. Rougemaille<sup>1</sup>, B. Borgnic<sup>1</sup>, F. Gay<sup>1</sup>, P. David<sup>1</sup>, D. Barral<sup>1</sup>, J. Tonnerre<sup>1</sup>, L. Ortega<sup>2</sup>, G. Beutier<sup>3</sup>, D. Lacour<sup>4</sup>, M. Hehn<sup>4</sup>, E. C. Passamani<sup>5</sup>, V. P. Nascimento<sup>5</sup>

<sup>1</sup>Neel Institute, CNRS, Grenoble, France, <sup>2</sup>LPS, CNRS, Orsay, France, <sup>3</sup>SIMaP, UGA, Saint Martin d'Hères, France, <sup>4</sup>Institut Jean Lamour, CNRS, Nancy, France, <sup>5</sup>Physics, Universidade Federal do Espírito 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<sup>1,2</sup>

<sup>1</sup>Physics, University of Colorado, Boulder, Boulder, Colorado, United States, <sup>2</sup>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<sup>57</sup>/C<sub>42</sub>H<sub>28</sub>) Thin films; Studies under X-ray standing waves**

M. Priyadarsini<sup>1</sup>, S. Singh<sup>1</sup>, I. Sergeev<sup>2</sup>, D. Kumar<sup>1</sup>

<sup>1</sup>Physics, UGC DAE Consortium for Scientific Research, Indore, Madhya Pradesh, India, <sup>2</sup>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<sup>1</sup>, G. Causer<sup>1</sup>, A. Glavic<sup>2</sup>

<sup>1</sup>Large Scale Structures Division, European Spallation Source, Lund, Sweden, <sup>2</sup>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<sub>2</sub>**

J. Sears<sup>1</sup>, V. Garlea<sup>2</sup>, D. Lederman<sup>3</sup>, J. Tranquada<sup>1</sup>, I. Zaliznyak<sup>1</sup>

<sup>1</sup>Brookhaven National Laboratory, Upton, New York, United States, <sup>2</sup>Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, <sup>3</sup>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<sup>1,2</sup>, J. Hanson-Flores<sup>2</sup>, R. Gupta<sup>4,3</sup>, L. Ramos<sup>3</sup>, D. A. Arena<sup>3</sup>, E. del Barco<sup>1,2</sup>

<sup>1</sup>Department of Material Science and Engineering, University of Central Florida, Orlando, Florida, United States, <sup>2</sup>Department of Physics, University of Central Florida, Orlando, Florida, United States, <sup>3</sup>Department of Physics, University of South Florida, Tampa, Florida, United States, <sup>4</sup>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<sup>1</sup>, N. S. Sirica<sup>1</sup>, J. K. Gustafson<sup>2</sup>, N. Combs<sup>1</sup>, E. Cobas<sup>1</sup>, M. Noyan<sup>1</sup>, C. Li<sup>1</sup>

<sup>1</sup>Naval Research Laboratory, Washington, District of Columbia, United States, <sup>2</sup>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<sup>1</sup>, G. Nava Antonio<sup>2</sup>, P. Chailloleau<sup>1</sup>, Y. L. Guen<sup>1</sup>, J. Hohlfeld<sup>1</sup>, T. Hauet<sup>1</sup>, M. Hehn<sup>1</sup>, C. Ciccarelli<sup>2</sup>, S. Mangin<sup>1</sup>

<sup>1</sup>Institut Jean Lamour, Université de Lorraine, Nancy, Meurthe et Moselle, France, <sup>2</sup>University of Cambridge, Cambridge, United Kingdom

**09:42 AM-09:54 AM**

**AF-05. Terahertz Emission in Thin Film Kagome Ferromagnet Fe<sub>3</sub>Sn<sub>2</sub>**

A. De<sup>1</sup>, Z. Jin<sup>1,2</sup>, E. Lesne<sup>3</sup>, K. Nukui<sup>1,2</sup>, S. Miki<sup>1</sup>, C. Felser<sup>3</sup>, A. Hirohata<sup>4,3</sup>, S. Mizukami<sup>1,4</sup>

<sup>1</sup>Advanced Institute for Materials Research, Tohoku University, Sendai, Japan, <sup>2</sup>Graduate School of Engineering, Tohoku University, Sendai, Japan, <sup>3</sup>Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, <sup>4</sup>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<sup>1</sup>, S. Isogami<sup>2</sup>, Y. Sasaki<sup>2</sup>, Y. K. Takahashi<sup>2,3</sup>, T. Satoh<sup>1</sup>, K. T. Yamada<sup>1</sup>

<sup>1</sup>Department of Physics, Institute of Science Tokyo, Tokyo, Japan, <sup>2</sup>National Institute for Materials Science (NIMS), Tsukuba, Japan, <sup>3</sup>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<sup>1</sup>, B. Pauriche<sup>2</sup>, S. Boujday<sup>2</sup>, B. Vodungbo<sup>2</sup>, M. Mivelle<sup>1</sup>

<sup>1</sup>CNRS/ Sorbonne University, Paris, France, <sup>2</sup>Sorbonne University, Paris, France

**10:18 AM-10:30 AM**

**AF-09. Electric Field-induced Antiferromagnetic Resonance in MnPS<sub>3</sub>**

J. Hanson-Flores<sup>\*1</sup>, A. Regmi<sup>1</sup>, J. Keum<sup>6</sup>, J. Tang<sup>3</sup>, J. Park<sup>6</sup>, R. Cheng<sup>2</sup>, S. Singh<sup>4</sup>, A. D. Kent<sup>7</sup>, D. A. Arena<sup>5</sup>, E. del Barco<sup>1</sup>

<sup>1</sup>Physics, University of Central Florida, Orlando, Florida, United States, <sup>2</sup>Electrical and Computer Engineering, University of California, Riverside, Riverside, California, United States, <sup>3</sup>Physics and Astronomy, University of California, Riverside, Riverside, California, United States, <sup>4</sup>Physics, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States, <sup>5</sup>Physics, University of South Florida, Tampa, Florida, United States, <sup>6</sup>Physics and Astronomy, Seoul National University, Seoul, Korea (the Republic of), <sup>7</sup>Physics, New York University, New York, New York, United States

**10:30 AM-10:42 AM**

**AF-11. Altermagnetic non-reciprocal magnon transport in insulating d-wave orthoferrites**

E. Galíndez-Ruales<sup>1</sup>, W. Yang<sup>3</sup>, T. Danneegger<sup>2</sup>, M. Kundu<sup>2</sup>, J. Köhler<sup>1</sup>, C. Schmitt<sup>1</sup>, F. Fuhrmann<sup>1</sup>, A. Akashdeep<sup>1</sup>, D. Tran<sup>1</sup>, X. Ma<sup>3</sup>, G. Jakob<sup>1</sup>, S. Cao<sup>3</sup>, U. Nowak<sup>2</sup>, M. Kläui<sup>1</sup>

<sup>1</sup>Institute of Physics, Johannes Gutenberg University, Mainz, Germany, <sup>2</sup>Fachbereich Physik, Universität Konstanz, Konstanz, Germany, <sup>3</sup>Materials Genome Institute, Institute of Quantum Science and Technology, International Center for Quantum and Molecular Structures, Shanghai University, Shanghai, China

**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<sup>1,2,3</sup>, S. Suzuki<sup>1</sup>, I. Sasaki<sup>1</sup>, K. Yamada<sup>1</sup>, R. Kawahara<sup>1</sup>, S. Takada<sup>1,3,4</sup>, Y. Shimamoto<sup>5</sup>, H. Shoji<sup>5</sup>, Y. Kousaka<sup>5</sup>, J. Ohe<sup>6</sup>, Y. Togawa<sup>5</sup>, Y. Niimi<sup>1,2,3</sup>

<sup>1</sup>Department of Physics, The University of Osaka, Toyonaka, Osaka, Japan, <sup>2</sup>Center for Spintronics Research Network, The University of Osaka, Toyonaka, Osaka, Japan, <sup>3</sup>Institute for Open and Transdisciplinary Research Initiatives, The University of Osaka, Suita, Osaka, Japan, <sup>4</sup>Center for Quantum Information and Quantum Biology, The University of Osaka, Toyonaka, Osaka, Japan, <sup>5</sup>Department of Physics and Electronics, Osaka Metropolitan University, Sakai, Osaka, Japan, <sup>6</sup>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<sup>1</sup>, T. Nguen<sup>1</sup>, S. Ikeda<sup>1,2,4</sup>, T. Endoh<sup>1,3,4</sup>

<sup>1</sup>Center for Innovative Integrated Electronic Systems, Tohoku University, Sendai, Miyagi, Japan, <sup>2</sup>Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Miyagi, Japan, <sup>3</sup>Department of Electrical Engineering, Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan, <sup>4</sup>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<sup>1</sup>, R. Fan<sup>1</sup>, D. M. Burn<sup>1</sup>, O. Inyang<sup>2</sup>, A. Hindmarch<sup>2</sup>, P. Steadman<sup>1</sup>

<sup>1</sup>Physical Science Division, Diamond Light Source, Didcot, Oxfordshire, United Kingdom, <sup>2</sup>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  $\alpha$ -PdBi<sub>2</sub>**

Y. Samukawa<sup>1</sup>, K. Nakashima<sup>1</sup>, N. Jiang<sup>1,2,3</sup>, K. Kudo<sup>1,3</sup>, Y. Niimi<sup>1,2,3</sup>, K. Kondou<sup>2,3</sup>

<sup>1</sup>Department of Physics, The University of Osaka, Toyonaka, Osaka, Japan, <sup>2</sup>Center for Spintronics Research Network, The University of Osaka, Toyonaka, Osaka, Japan, <sup>3</sup>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<sup>1</sup>, S. Ko<sup>1</sup>, G. Baek<sup>1</sup>, B. Park<sup>2</sup>, A. M. Park<sup>1</sup>, K. Kim<sup>1</sup>

<sup>1</sup>Physics, KAIST, Daejeon, Korea (the Republic of), <sup>2</sup>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-08. Field-free spin-orbit torque switching of thin films with perpendicular magnetic anisotropy**

W. Skowronski<sup>1</sup>, M. Cierpial<sup>1</sup>, D. Maslanka<sup>1</sup>, K. Gubala<sup>1</sup>, M. Cecot<sup>1</sup>, K. Grochot<sup>1</sup>, T. Nan<sup>2</sup>

<sup>1</sup>AGH University of Krakow, Krakow, Poland, <sup>2</sup>Tsinghua University, Beijing, China

10:57 AM-11:09 AM

**AG-09. Modulation of Damping in the Magnetic Weyl Semimetal Co<sub>2</sub>MnGa by Intrinsic Spin-Orbit Torques**

F. Weidenhiller<sup>1,2</sup>, L. Chen<sup>1,2</sup>, C. H. Back<sup>1,2</sup>

<sup>1</sup>School of Natural Sciences, Technical University of Munich, Garching, Germany, <sup>2</sup>TUM Center for Quantum Engineering, Garching, Germany

11:09 AM-11:21 AM

**AG-10. Channel-Less SOT-MRAM Integration with Embedded Spin-Orbit-Torque Track for Reduced Switching Current**

J. Urrestarazu Larranaga, V. Keteel, A. Palomino Lopez, A. Das, N. Paul, G. Talmelli, V. Nguyen, R. Carpenter, S. Rao  
imec, Leuven, Belgium

**11:21 AM-11:33 AM**

**AG-11. When magnons drag electrons: the phenomena of interfacial magnon drag**

A. De<sup>1,2</sup>, D. Prabhakaran<sup>3</sup>, S. Nair<sup>1</sup>

<sup>1</sup>Physics, IISER Pune, Pune, Maharashtra, India, <sup>2</sup>Weizmann Institute of Science, Rehovot, Israel, <sup>3</sup>University of Oxford, Oxford, United Kingdom

**11:33 AM-11:45 AM**

**AG-12. Large Self-Induced Inverse Spin Hall Effect and Damping-Like Torque in Single-layer Kagome Magnet Fe<sub>3</sub>Sn**

N. Kandwal<sup>1</sup>, H. Bangar<sup>2</sup>, A. Saxena<sup>1</sup>, V. Yadav<sup>1</sup>, R. S. Yadav<sup>1</sup>, A. Sahoo<sup>1</sup>, S. P. Dash<sup>2</sup>, P. K. Muduli<sup>1</sup>

<sup>1</sup>Physics, Indian Institute of Technology Delhi, South Delhi, Delhi, India, <sup>2</sup>Microtechnology and Nanoscience, Chalmers University of Technology, Gothenburg, Sweden

**11:45 AM-11:57 AM**

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

A. K. Aykin<sup>1</sup>, A. K<sup>2</sup>, S. Petit-Watelot<sup>2</sup>, M. S. Yactayo<sup>2</sup>, L. Badie<sup>2</sup>, S. Mangin<sup>2</sup>, M. Hehn<sup>2</sup>, C. Rojas-Sanchez<sup>2</sup>, A. D. Kent<sup>1</sup>

<sup>1</sup>Center for Quantum Phenomena, Department of Physics, New York University, New York, New York, United States, <sup>2</sup>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<sup>1</sup>, S. Kim<sup>1</sup>, H. Cha<sup>1</sup>, T. Kim<sup>1</sup>, K. Bae<sup>2</sup>, D. Kim<sup>2</sup>, J. Lee<sup>1</sup>

<sup>1</sup>Korea Institute of Materials Science, Changwon, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, B. Dodrill<sup>1</sup>, D. Daughton<sup>1</sup>, S. Krishnan<sup>2</sup>, J. Shield<sup>2</sup>

<sup>1</sup>Lake Shore Cryotronics Inc, Westerville, Ohio, United States, <sup>2</sup>University of Nebraska – Lincoln, Lincoln, Nebraska, United States

## **AP-07. Synthesis and Magnetic Properties of Exchange-coupled SmCo<sub>5</sub>/Fe-Co Composite using Ultrasound-assisted Electroless Plating**

K. Lee<sup>1,2</sup>, G. Lee<sup>3</sup>, H. Lee<sup>1</sup>, J. Ahn<sup>1</sup>, J. Kim<sup>1</sup>

<sup>1</sup>Materials Science and Chemical Engineering, Hanyang University, Ansan, Korea (the Republic of), <sup>2</sup>Convergence Institute of ERICA, Hanyang University, Ansan, Korea (the Republic of), <sup>3</sup>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<sup>1</sup>, H. Yamamoto<sup>2</sup>, M. Ohtake<sup>1</sup>

<sup>1</sup>Yokohama National University, Yokohama, Kanagawa, Japan, <sup>2</sup>Neojiconsul, Kyoto, Japan

## **AP-11. Magnetic alignment $\alpha_m$ by the magnetic measurement and crystallographic alignment $\alpha_c$ by EBSD analysis of sintered NdFeB, Sr ferrite and anisotropic injection molded (IM) bonded SmFeN magnets**

H. Yamamoto<sup>1</sup>, H. Fukunaga<sup>2</sup>

<sup>1</sup>President, Neoji-consul, Kyoto, Kyoto, Japan, <sup>2</sup>Electric Dept., Nagasaki University, Nagasaki, Nagasaki, Japan

## **AP-12LB. Controlling and Understanding Grain Boundary Diffusion in Sintered Commercial Grade NdFeB Magnets**

H. Baldino<sup>1</sup>, C. Chinnasamy<sup>2</sup>, J. A. Haynes<sup>3</sup>, P. Kulik<sup>4</sup>

<sup>1</sup>Material Science and Engineering, University of Central Florida, Orlando, Florida, United States, <sup>2</sup>Manufacturing Science Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, <sup>3</sup>Materials Science and Technology Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, <sup>4</sup>Electrical and Computer Engineering, University of Central Florida, Orlando, Florida, United States

## **AP-13LB. The Effect of Ti addition on the microstructure and magnetic properties of SmCo 2:17-type magnets**

J. He, H. Wang, C. Jiang

Beihang University, Beijing, China

## **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<sup>1</sup>, S. Taue<sup>1</sup>, T. Sasayama<sup>2</sup>

<sup>1</sup>Kochi University of Technology, Kami, Japan, <sup>2</sup>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<sup>1</sup>, S. Liang<sup>2</sup>, J. Wang<sup>1,2</sup>

<sup>1</sup>Electrical and Computer Engineering, University of Minnesota, Minneapolis, Minnesota, United States, <sup>2</sup>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<sup>1</sup>, S. Takano<sup>1</sup>, T. Nakano<sup>1</sup>, M. Oogane<sup>1,2</sup>

<sup>1</sup>Graduate School of Engineering, Department of Applied Physics, Tohoku University, Sendai, Miyagi, Japan, <sup>2</sup>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. Leita

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<sup>1</sup>, M. Islam<sup>2</sup>, M. Goto<sup>3</sup>, Y. Ando<sup>1</sup>

<sup>1</sup>Department of Electronics and Physical Engineering, Osaka Metropolitan University, Sakai, Osaka, Japan, <sup>2</sup>Department of Information and Communications Engineering, Institute of Science Tokyo, Meguro, Tokyo, Japan, <sup>3</sup>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<sub>2</sub>/FeGaB Heterostructures**

B. Luo<sup>1</sup>, A. Winkler<sup>2</sup>, H. Schmidt<sup>2</sup>, V. Sharma<sup>3</sup>, S. Wohlrab<sup>2</sup>, M. Wu<sup>3,1</sup>, N. X. Sun<sup>1</sup>

<sup>1</sup>Department of Electrical and Computer Engineering, Northeastern University, Boston, Massachusetts, United States, <sup>2</sup>SAW Lab Saxony Leibniz IFW, Leibniz Institute for Solid State and Materials Research, Dresden, Germany, <sup>3</sup>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<sup>1,2</sup>, Y. Okuyama<sup>2</sup>, T. Endo<sup>2</sup>, Y. Imai<sup>1</sup>, K. Okita<sup>2</sup>, M. Yamaguchi<sup>1</sup>

<sup>1</sup>Tohoku University, Sendai, Japan, <sup>2</sup>Tohoku-TMIT, Sendai, Japan

## **AQ-11. Magneto-mechano-electric energy harvesting performance depending on magnet mass and position on the piezoelectric plate**

S. Yoon<sup>1,2</sup>

<sup>1</sup>Korea Institute of Industrial Technology, Gwagnju, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, A. Kano<sup>1</sup>, Y. Gotoh<sup>2</sup>

<sup>1</sup>Graduate School of Science and Engineering, Oita University, Oita, Japan, <sup>2</sup>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<sup>2</sup>, K. Sakamoto<sup>1</sup>, Y. Hosono<sup>1</sup>, Y. Gotoh<sup>2</sup>

<sup>1</sup>*Oita University, Oita, Japan*, <sup>2</sup>*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<sup>1</sup>, K. Yamada<sup>1</sup>, Y. Gotoh<sup>2</sup>, T. Sasayama<sup>3</sup>, T. Taguchi<sup>4</sup>

<sup>1</sup>*Graduate School of Science and Technology, Oita University, Oita, Japan*, <sup>2</sup>*Oita University, Oita, Japan*, <sup>3</sup>*Kyushu University, Fukuoka, Japan*, <sup>4</sup>*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<sup>1</sup>, K. Yamanoi<sup>1</sup>, Y. Nozaki<sup>1,2</sup>

<sup>1</sup>*Department of Physics, Keio University, Yokohama, Japan*, <sup>2</sup>*Center for Spintronics Research Network, Keio University, Yokohama, Japan*

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

H. Licht<sup>1,2</sup>, L. Veldman<sup>1,2</sup>, N. Betz<sup>1,2</sup>, J. Schust<sup>1</sup>, L. Farinacci<sup>3</sup>, S. Baumann<sup>1</sup>, S. Loth<sup>1,2</sup>

<sup>1</sup>*Institute for Functional Matter and Quantum Technologies, University of Stuttgart, Stuttgart, Germany*, <sup>2</sup>*Center for Integrated Quantum Science and Technology, Stuttgart, Germany*, <sup>3</sup>*University of Würzburg, Würzburg, Germany*

## **AR-03. Laser-induced Inhomogeneous switching across the Morin-like transition in a mixed orthoferrite.**

W. M. Leenders<sup>1</sup>, P. van Kuppevelt<sup>2</sup>, N. Khokhlov<sup>2</sup>, U. Staub<sup>3</sup>, J. Mentink<sup>1,2</sup>, A. V. Kimel<sup>2</sup>

<sup>1</sup>*Spectroscopy of Solids and Interfaces, Radboud University, Nijmegen, Gelderland, Netherlands*, <sup>2</sup>*Ultrafast Spectroscopy of Correlated Materials, Radboud University, Nijmegen, Gelderland, Netherlands*, <sup>3</sup>*Center for Photon Science, Paul Scherrer Institute, Villigen, Switzerland*

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

Y. Park<sup>1</sup>, G. Lee<sup>2</sup>, K. Lee<sup>2</sup>

<sup>1</sup>*Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of)*, <sup>2</sup>*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 Mn<sub>3</sub>Sn

E. Jun<sup>1</sup>, S. Lee<sup>1</sup>, E. Im<sup>1</sup>, G. Baek<sup>2</sup>, S. Yang<sup>3</sup>, K. Kim<sup>2</sup>, S. Kim<sup>1</sup>

<sup>1</sup>Department of Physics and Energy Harvest Storage Research Centre, University of Ulsan, Ulsan, Korea (the Republic of), <sup>2</sup>KAIST, Daejeon, Korea (the Republic of), <sup>3</sup>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<sup>1,2,3</sup>, J. Igarashi<sup>4,5</sup>, A. Anadón<sup>4</sup>, M. Hehn<sup>4,7</sup>, Y. L. Guen<sup>4</sup>, S. Iihama<sup>6</sup>, J. Hohlfeld<sup>4</sup>, J. Gorchon<sup>4</sup>, S. Mangin<sup>4,7</sup>, G. Malinowski<sup>4</sup>

<sup>1</sup>Department of Materials Engineering Science, the University of Osaka, Toyonaka, Osaka, Japan, <sup>2</sup>Department of Applied Physics, Tohoku University, Sendai, Miyagi, Japan, <sup>3</sup>Advanced Institute for Materials Research (AIMR), Tohoku University, Sendai, Miyagi, Japan, <sup>4</sup>Université de Lorraine, Nancy, France, <sup>5</sup>National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan, <sup>6</sup>Department of Materials Physics, Nagoya University, Nagoya, Japan, <sup>7</sup>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<sup>1</sup>, A. Angotti<sup>2</sup>, F. Kohl<sup>3</sup>, A. Papp<sup>4</sup>, M. Wagner<sup>3</sup>, M. Cocconcelli<sup>2</sup>, A. Del Giacco<sup>2</sup>, F. Maspero<sup>2</sup>, B. Heinz<sup>3</sup>, G. Csaba<sup>4</sup>, R. Bertacco<sup>2</sup>, M. Becherer<sup>1</sup>, P. Pirro<sup>3</sup>

<sup>1</sup>School of Computation, Information and Technology, Technical University of Munich, Garching bei Muenchen, Bavaria, Germany, <sup>2</sup>Department of Physics and Polifab, Politecnico di Milano, Milano, Italy, <sup>3</sup>Fachbereich Physik and Landesforschungszentrum OPTIMAS, Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau, Kaiserslautern, Germany, <sup>4</sup>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<sup>1</sup>, J. Groefsema<sup>1</sup>, B. Ivanov<sup>1</sup>, V. Radovskaia<sup>1</sup>, M. Na<sup>1</sup>, M. Strugatsky<sup>2</sup>, A. V. Kimel<sup>1</sup>, D. Afanasiev<sup>1</sup>

<sup>1</sup>Radboud University, Nijmegen, Netherlands, <sup>2</sup>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<sup>1</sup>, M. Okawa<sup>1</sup>, S. Komori<sup>2</sup>, T. Taniyama<sup>1</sup>

<sup>1</sup>Nagoya University, Nagoya, Japan, <sup>2</sup>Osaka Metropolitan University, Osaka, Japan

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

E. A. Saavedra Díaz<sup>1</sup>, H. Vigo<sup>2</sup>, C. Saji<sup>1</sup>, D. Laroze<sup>3</sup>, M. Al Bahri<sup>4</sup>, J. Escrig<sup>1,5</sup>

<sup>1</sup>Universidad de Santiago de Chile, Santiago, Chile, <sup>2</sup>Universidad Privada del Norte, Trujillo, Peru, <sup>3</sup>Universidad de Tarapacá, Arica, Chile, <sup>4</sup>A'Sharqiyah University, Ibra, Oman, <sup>5</sup>Center for Nanoscience and Nanotechnology (CEDENNA), Santiago, Chile

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

R. Mehta<sup>1</sup>, T. Sharma<sup>1</sup>, I. Pershad<sup>1</sup>, P. K. Pal<sup>2</sup>, A. Barman<sup>2</sup>, D. A. Arena<sup>3</sup>, S. Saha<sup>1</sup>

<sup>1</sup>Physics, Ashoka University, Rai, Haryana, India, <sup>2</sup>Physics, S. N. Bose National Center for Basic Sciences, Kolkata, West Bengal, India,

<sup>3</sup>Physics, University of South 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<sup>1,2</sup>, M. Lindero-Hernández<sup>3</sup>, F. Trillaud<sup>4</sup>, L. Montoya-Santiyanes<sup>5</sup>, G. dos Santos<sup>6</sup>, D. Garfias-Dávalos<sup>7</sup>, Y. Narushima<sup>1,2</sup>, Y. Raiymbekov<sup>2</sup>, S. Miura<sup>1,2</sup>, X. Li<sup>1,8</sup>

<sup>1</sup>National Institute for Fusion Science, Gifu, Japan, <sup>2</sup>SOKENDAI (The Graduate University for Advanced Studies), Gifu, Japan, <sup>3</sup>Instituto de Ingeniería, Universidad Nacional Autónoma de México, Mexico City, Mexico, <sup>4</sup>Université de Lorraine, GREEN Lab, Vandoeuvre-lès-Nancy, France, <sup>5</sup>Unidad de Alta Tecnología, Facultad de Ingeniería, Universidad Nacional Autónoma de México, Querétaro, Mexico, <sup>6</sup>Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil, <sup>7</sup>Karlsruhe Institute of Technology, Karlsruhe, Germany, <sup>8</sup>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<sup>1</sup>, A. G. Gubieda<sup>2</sup>, L. Gandarias<sup>3</sup>, D. de Cos Elices<sup>4</sup>, A. Abad<sup>2</sup>, A. García-Prieto<sup>5</sup>, M. Fernandez Gubieda<sup>1</sup>

<sup>1</sup>Electricidad y Electrónica, Universidad del País Vasco (UPV/EHU), Leioa, Spain, <sup>2</sup>Inmunología, Microbiología y Parasitología, Universidad del País Vasco (UPV/EHU), Leioa, Spain, <sup>3</sup>Institute of Biosciences and Biotechnologies of Aix-Marseille (BIAM), Saint-Paul-lez-Durance, France, <sup>4</sup>Física, Universidad del País Vasco (UPV/EHU), Leioa, Spain, <sup>5</sup>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<sup>1</sup>, R. Farrell<sup>2</sup>, L. Nguyen T. Tran<sup>1</sup>, X. Wu<sup>3</sup>, E. Rodriguez<sup>1</sup>, M. Venere<sup>4</sup>, J. Chalmers<sup>5</sup>, K. Chen<sup>2</sup>, J. Gomez-Pastora<sup>1</sup>

<sup>1</sup>Chemical Engineering, Texas Tech University, Lubbock, Texas, United States, <sup>2</sup>Biological Sciences, Texas Tech University, Lubbock, Texas, United States, <sup>3</sup>Boston Institute of Biotechnology, Southborough, Massachusetts, United States, <sup>4</sup>Radiation Oncology, The Ohio State University College of Medicine, Columbus, Ohio, United States, <sup>5</sup>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<sup>2</sup>, H. J. Richter<sup>2</sup>, C. Dai<sup>2</sup>, L. Wang<sup>2</sup>, Y. Fan<sup>2</sup>, J. Gibbons<sup>2</sup>, J. Katine<sup>2</sup>, K. Honer<sup>1</sup>

<sup>1</sup>Roche Sequencing Solutions, Santa Clara, California, United States, <sup>2</sup>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<sub>2</sub>O<sub>4</sub> Magnetic Nanoparticles

K. Ohara<sup>2</sup>, K. Nakazawa<sup>2</sup>, N. Kataoka<sup>2</sup>, Y. Ichiyanagi<sup>1,2</sup>

<sup>1</sup>Graduate School of Engineering Science, The University of Osaka, Toyonaka, Japan, <sup>2</sup>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<sup>1,2</sup>, R. Morel<sup>1</sup>, H. Joisten<sup>1</sup>, C. Naud<sup>1</sup>, A. Nicolas<sup>2</sup>, P. Obeid<sup>3</sup>, A. Millet<sup>3</sup>, F. Berger<sup>4</sup>, B. Dieny<sup>1</sup>

<sup>1</sup>SPINTEC, Univ. Grenoble Alpes, CEA, CNRS, Grenoble, France, <sup>2</sup>LTM, Univ. Grenoble Alpes, CNRS, Grenoble, France, <sup>3</sup>BIOMICS, Univ. Grenoble Alpes, CEA, INSERM, Grenoble, France, <sup>4</sup>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-02. First principles calculations of orbital momentum relaxation in solids**

K. Carva

*Charles University Prague, Prague, Czechia*

02:48 PM-03:00 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)*

03:00 PM-03:12 PM

**BB-04. Experimental Evidence for Dominant Orbital Transport**

E. Santos<sup>1</sup>, J. L. Costa<sup>1</sup>, J. E. Abrão<sup>1</sup>, J. B. Mendes<sup>2</sup>, A. Azevedo<sup>1</sup>

<sup>1</sup>Physics, Federal University of Pernambuco, Recife, Pernambuco, Brazil, <sup>2</sup>Department of Physics, Federal University of Viçosa, Vicosa, Minas Gerais, Brazil

03:12 PM-03:48 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*

03:48 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<sup>1</sup>, T. Zhao<sup>1</sup>, I. Baek<sup>2</sup>, H. Lee<sup>2</sup>, Z. Zheng<sup>1</sup>, S. Shi<sup>1</sup>, Z. Xie<sup>3</sup>, Q. Zhang<sup>1</sup>, L. Jia<sup>1</sup>, P. Yang<sup>4</sup>, X. Yu<sup>4</sup>, D. Song<sup>3</sup>, H. Lee<sup>2</sup>, J. Chen<sup>1</sup>  
<sup>1</sup>Department of Materials Science and Engineering Material Science and Engineering, National University of Singapore, Singapore, Singapore, <sup>2</sup>Department of Physics, Pohang University of Science and Technology, Pohang, Korea (the Republic of), <sup>3</sup>Institutes of Physical Science and Information Technology, Anhui University, Hefei, China, <sup>4</sup>Singapore Synchrotron Light Source, Singapore, Singapore

04:27 PM-05:03 PM

**BB-07. All orbitronics concepts with orbital magnets**

A. Du<sup>1</sup>, C. Schmitt<sup>1</sup>, S. Krishna<sup>1</sup>, M. Zeer<sup>2</sup>, E. Galíndez-Ruales<sup>1</sup>, M. Loyal<sup>1</sup>, J. Köhler<sup>1</sup>, L. Micus<sup>1</sup>, T. Kikkawa<sup>3</sup>, H. Arisawa<sup>3</sup>, T. Denneulin<sup>4</sup>, A. Kovács<sup>4</sup>, D. Tran<sup>1</sup>, F. Kronast<sup>5</sup>, D. Go<sup>1,2</sup>, L. Pourovskii<sup>6</sup>, R. E. Dunin-Borkowski<sup>4</sup>, T. Kuschel<sup>1</sup>, M. Leaïc<sup>1</sup>, J. Sinova<sup>1</sup>, E. Saitoh<sup>3</sup>, G. Jakob<sup>1</sup>, O. Gomonay<sup>1</sup>, Y. Mokrousov<sup>1,2</sup>, M. Kläui<sup>1,7</sup>  
<sup>1</sup>Institute of Physics, Johannes Gutenberg University Mainz, Mainz, Germany, <sup>2</sup>Peter Grünberg Institut and Institute for Advanced Simulation, Forschungszentrum Jülich and JARA, Jülich, Germany, <sup>3</sup>Department of Applied Physics, The University of Tokyo, Tokyo, Japan, <sup>4</sup>Ernst Ruska-Centre for Microscopy and Spectroscopy with Electrons, Forschungszentrum Jülich, Jülich, Germany, <sup>5</sup>Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany, <sup>6</sup>CPHT, CNRS, École Polytechnique, Institut Polytechnique de Paris, Palaiseau, France, <sup>7</sup>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<sup>\*1,2</sup>, S. Choe<sup>2</sup>, D. Kim<sup>1</sup>  
<sup>1</sup>Korea Institute of Science and Technology (KIST), Seoul, Korea (the Republic of), <sup>2</sup>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<sup>1,2</sup>, A. Kumar<sup>2</sup>, S. Hameed<sup>2</sup>, P. Reiser<sup>3</sup>, T. Scholz<sup>4</sup>, T. Denneulin<sup>5</sup>, J. Vas<sup>5</sup>, Z. Lin<sup>6</sup>, S. Fu<sup>7</sup>, A. Shahee<sup>2</sup>, M. Tschudin<sup>3</sup>, C. Pellet-Mary<sup>3</sup>, D. Dutta<sup>3</sup>, C. Schrader<sup>3</sup>, J. Geuchies<sup>2</sup>, K. Leutner<sup>2</sup>, X. Wang<sup>2</sup>, L. Gao<sup>7</sup>, A. Kovács<sup>5</sup>, H. Wang<sup>7</sup>, G. Jakob<sup>2</sup>, A. Bonanni<sup>8</sup>, J. Yang<sup>6</sup>, O. Gomonay<sup>2</sup>, U. Nowak<sup>9</sup>, J. Sinova<sup>2</sup>, B. Lotsch<sup>4</sup>, R. E. Dunin-Borkowski<sup>5</sup>, P. Maletinsky<sup>3</sup>, M. Kläui<sup>2,10</sup>  
<sup>1</sup>Rice University, Houston, Texas, United States, <sup>2</sup>Johannes Gutenberg University, Mainz, Germany, <sup>3</sup>University of Basel, Basel, Switzerland, <sup>4</sup>Max Planck Institute for Solid State Research, Stuttgart, Germany, <sup>5</sup>Forschungszentrum Jülich, Jülich, Germany, <sup>6</sup>Peking University, Beijing, China, <sup>7</sup>Max Planck Institute for Polymer Research, Mainz, Germany, <sup>8</sup>Johannes Kepler University, Linz, Austria, <sup>9</sup>University of Konstanz, Konstanz, Germany, <sup>10</sup>Norwegian University of Science and Technology NTNU, Trondheim, Norway

02:36 PM-02:48 PM

**BC-02. Exploring the Magnetic Quantum Phases in MnSb<sub>2</sub>Te<sub>4</sub> by First-Principles Calculations**

M. Tardieux<sup>1</sup>, A. Isaeva<sup>1,2,3</sup>, I. Aguilera<sup>1</sup>  
<sup>1</sup>Institute of Physics, University of Amsterdam, Amsterdam, Netherlands, <sup>2</sup>Faculty of Physics, Technical University of Dortmund, Dortmund, Germany, <sup>3</sup>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 CeFeGe<sub>3</sub>**

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<sub>2</sub>CuZn<sub>2</sub>Sb<sub>3</sub>**

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<sup>1</sup>, Z. Guo-Hua<sup>2</sup>, H. Lin<sup>1</sup>

<sup>1</sup>*Institute for Advanced Studies in Physics and School of Physics, Zhejiang University, Hangzhou, Zhejiang, China, <sup>2</sup>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<sup>1</sup>, T. Yamada<sup>2</sup>

<sup>1</sup>*Electrical, Electronic, and Information Engineering, Kansai University, Suita, Osaka, Japan, <sup>2</sup>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<sub>3</sub>Sn**

T. Bayarar, 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<sup>1</sup>, M. Ullerithodi<sup>1</sup>, Y. Sasaki<sup>1</sup>, H. Sibi<sup>1</sup>, G. K. Shukla<sup>1</sup>, D. Angayarkanni Ramamurthy<sup>1</sup>, S. Isogami<sup>1</sup>, Y. Fan<sup>2</sup>, Y. Kubota<sup>3</sup>, J. Gadbois<sup>2</sup>, Y. K. Takahashi<sup>1,4</sup>

<sup>1</sup>Research Centre for Magnetism and Spintronic Materials, National Institute for Materials Science, Tsukuba, Ibaraki, Japan,

<sup>2</sup>Advanced Technology Development, Seagate Technology, Bloomington, Minnesota, United States, <sup>3</sup>Recording Media Organization, Seagate Technology, Fremont, California, United States, <sup>4</sup>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<sup>3,2</sup>, D. Angayarkanni Ramamurthy<sup>1</sup>, A. Bolyachkin<sup>1</sup>, D. Ogawa<sup>1</sup>, Y. Sasaki<sup>1</sup>, S. Kasai<sup>1</sup>, Y. K. Takahashi<sup>1,2,4</sup>

<sup>1</sup>RCMSM, NIMS, Tsukuba, Ibaraki, Japan, <sup>2</sup>Materials Innovation, University of Tsukuba, Tsukuba, Ibaraki, Japan, <sup>3</sup>RCMSM, NIMS, Tsukuba, Ibaraki, Japan, <sup>4</sup>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<sup>1</sup>, S. Greaves<sup>2</sup>, Y. Kanai<sup>3</sup>, Y. Okamoto<sup>1</sup>

<sup>1</sup>Ehime University, Matsuyama, Japan, <sup>2</sup>Tohoku University, Sendai, Japan, <sup>3</sup>Niigata Institute of Technology, Kashiwazaki, Japan

**03:12 PM-03:24 PM**

**BD-05. Magnetic properties of L1<sub>0</sub> FePt at different surface terminations**

A. VenuGOPAL<sup>1</sup>, I. Chatratin<sup>1</sup>, X. He<sup>2</sup>, V. Blum<sup>2,3</sup>, T. Klemmer<sup>4</sup>, O. Heinonen<sup>5</sup>

<sup>1</sup>Seagate Research, Seagate Technology, Bloomington, Minnesota, United States, <sup>2</sup>Thomas Lord Department of Mechanical Engineering and Materials Science, Duke University, Durham, North Carolina, United States, <sup>3</sup>Department of Chemistry, Duke University, Durham, North Carolina, United States, <sup>4</sup>Recording Media Organization, Seagate Technology, Fremont, California, United States, <sup>5</sup>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<sup>1,2</sup>, B. L. Reese<sup>1,2</sup>, D. E. Laughlin<sup>1,2,3</sup>, J. Zhu<sup>1,2,3</sup>

<sup>1</sup>Data Storage Systems Center, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States, <sup>2</sup>Materials Science and Engineering, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States, <sup>3</sup>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<sup>2</sup>**

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<sub>1-x</sub>Ta<sub>x</sub> Interlayers**

B. L. Reese<sup>2,1</sup>, J. Chang<sup>2,1</sup>, D. E. Laughlin<sup>2,1</sup>, J. Zhu<sup>2,1,3</sup>

<sup>1</sup>Materials Science and Engineering, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States, <sup>2</sup>Data Storage Systems Center, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States, <sup>3</sup>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<sup>1</sup>, S. Iihama<sup>1</sup>, B. Kunyanguen<sup>2</sup>, J. Lin<sup>2</sup>, A. Yoshida<sup>1</sup>, Y. Suzuki<sup>1</sup>, K. Hayashi<sup>1</sup>, G. Malinowski<sup>2</sup>, M. Hehn<sup>2</sup>, S. Mangin<sup>2</sup>, T. Moriyama<sup>1</sup>

<sup>1</sup>Department of Materials Physics, Nagoya University, Nagoya, Aichi, Japan, <sup>2</sup>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<sup>2,1,3</sup>, G. M. Stephen<sup>4</sup>, N. Blumenschein<sup>4</sup>, A. Edwards<sup>4</sup>, S. LaGasse<sup>4</sup>, S. P. Bennett<sup>5</sup>, A. T. Hanbicki<sup>4</sup>, R. Walsworth<sup>2,1,3</sup>, A. Friedman<sup>4</sup>, P. Petruzzi<sup>4</sup>

<sup>1</sup>Joint Quantum Institute, College Park, Maryland, United States, <sup>2</sup>Physics, University of Maryland, College Park, Maryland, United States, <sup>3</sup>Quantum Technology Center, College Park, Maryland, United States, <sup>4</sup>Laboratory for Physical Sciences, College Park, Maryland, United States, <sup>5</sup>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<sup>1</sup>, P. Mitchell<sup>2</sup>, A. Chavan<sup>1</sup>, C. Donnelly<sup>2</sup>, C. Abert<sup>1</sup>

<sup>1</sup>*University of Vienna, Vienna, Austria*, <sup>2</sup>*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<sup>1</sup>, I. Soldatov<sup>1</sup>, V. Neu<sup>1</sup>, Y. Vaynzof<sup>1,2</sup>

<sup>1</sup>*Institute for Emerging Electronic Technologies, IFW Dresden, Dresden, Germany*, <sup>2</sup>*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<sup>1</sup>, H. Baldino<sup>2</sup>, J. Williams<sup>1</sup>, P. Kulik<sup>1,2</sup>

<sup>1</sup>*Electrical & Computer Engineering, University of Central Florida, Orlando, Florida, United States*, <sup>2</sup>*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<sup>1</sup>, H. Kim<sup>1</sup>, E. Jun<sup>1</sup>, B. Hayden<sup>2</sup>, T. Ono<sup>4</sup>, U. Vool<sup>2</sup>, S. Kim<sup>1,3</sup>, Y. Choi<sup>1,2</sup>

<sup>1</sup>*Physics, University of Ulsan, Ulsan, Korea (the Republic of)*, <sup>2</sup>*Max Planck Institute for Chemical Physics of Solids, Dresden, Germany*, <sup>3</sup>*Center for Quantum Dynamics of Angular Momentum, Pohang University of Science and Technology, Pohang, Korea (the Republic of)*, <sup>4</sup>*Institute for Chemical Research, Kyoto, Japan*

**03:24 PM-03:36 PM**

**BE-06. Nanoscale Imaging of Antiferromagnetic Domains in Epitaxial Mn<sub>3</sub>GaN Thin Films**

D. R. Lawati<sup>1</sup>, Y. Yao<sup>2</sup>, P. Pal<sup>2</sup>, M. A. Elektiar<sup>3</sup>, R. Timalina<sup>1</sup>, J. Kumar<sup>1</sup>, M. Rzechowski<sup>4</sup>, E. Y. Tsymbal<sup>3,5</sup>, C. Eom<sup>2</sup>, A. Laraoui<sup>1,3,5</sup>

<sup>1</sup>*Mechanical & Materials Engineering, University of Nebraska-Lincoln, Lincoln, Nebraska, United States*, <sup>2</sup>*Materials Science and Engineering, University of Wisconsin-Madison, Madison, Wisconsin, United States*, <sup>3</sup>*Department of Physics and Astronomy, University of Nebraska-Lincoln, Lincoln, Nebraska, United States*, <sup>4</sup>*Department of Physics, University of Wisconsin-Madison, Madison, Wisconsin, United States*, <sup>5</sup>*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<sup>1</sup>, C. Bianchini<sup>2</sup>, G. Petrelli<sup>3</sup>

<sup>1</sup>Alma Mater Studiorum, University of Bologna, Bologna, Italy, <sup>2</sup>University of Modena and Reggio Emilia, Modena, Italy, <sup>3</sup>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<sup>1,2</sup>, M. Zhang<sup>1,2</sup>, F. Xiao<sup>1,2</sup>, H. Wang<sup>1,2</sup>, Z. Cai<sup>4</sup>, D. Dong<sup>3</sup>

<sup>1</sup>School of Electrical Engineering and Automation, Wuhan University, Wuhan, Hubei, China, <sup>2</sup>State Key Laboratory of Power Grid Environmental Protection, School of Electrical Engineering and Automation, Wuhan University, Wuhan, Hubei, China, <sup>3</sup>Xiangtan Electric Manufacturing Co., Ltd, Xiangtan, Hunan, China, <sup>4</sup>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<sup>1</sup>, M. Namikawa<sup>2</sup>, H. Inoue<sup>1</sup>, T. Omura<sup>1</sup>, T. Overboom<sup>3</sup>, M. Schmid<sup>4</sup>, S. Mokkapaty<sup>5</sup>, M. Milone<sup>5</sup>

<sup>1</sup>Steel Research Laboratory, JFE Steel Corporation, Kurashiki, Japan, <sup>2</sup>Steel Research Laboratory, JFE Steel Corporation, Kawasaki, Japan, <sup>3</sup>Royal Smit Transformers, SGB-SMIT Group, Nijmegen, Netherlands, <sup>4</sup>SGB Transformers, SGB-SMIT Group, Regensburg, Germany, <sup>5</sup>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  $\text{Mn}_3\text{Sn}$**

P. Madhusudan Rao<sup>1</sup>, J. Jeon<sup>1</sup>, K. Callahan-Coray<sup>2</sup>, K. Camsari<sup>2</sup>, S. Parkin<sup>1</sup>

<sup>1</sup>Nanosystems for Ions, Spins and Electrons, Max-Planck Institute of Microstructure Physics, Halle(Saale), Germany, <sup>2</sup>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  $\text{Mn}_3\text{Sn}$  nanodots driven by chiral spin rotation using sub-ns pulses**

Y. Fushimi<sup>1,2</sup>, Y. Sato<sup>1,2</sup>, H. Iwai<sup>1,2</sup>, Y. Yamane<sup>1,3</sup>, S. Kanai<sup>1,2,4</sup>, S. Fukami<sup>1,2,4</sup>

<sup>1</sup>Laboratory for Nanoelectronics and Spintronics, Research Institute of Electrical Communication, Tohoku University, Sendai, Japan,

<sup>2</sup>Department of Electronic Engineering, Tohoku University, Sendai, Japan, <sup>3</sup>Frontier Research Institute for Interdisciplinary Sciences, Tohoku University, Sendai, Japan, <sup>4</sup>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<sup>1,2</sup>, V. C. Rogers<sup>1,2</sup>, S. B. Hamid<sup>1,2</sup>, M. Hamdi<sup>3</sup>, J. Kang<sup>3</sup>, S. Arpaci<sup>4</sup>, E. Matt<sup>4</sup>, S. Cheung<sup>3</sup>, P. Khalili Amiri<sup>3,4</sup>, J. Incorvia<sup>1,2</sup>

<sup>1</sup>Chandra Dept. of Electrical and Computer Engineering, University of Texas at Austin, Austin, Texas, United States, <sup>2</sup>Microelectronics Research Center, University of Texas at Austin, Austin, Texas, United States, <sup>3</sup>Department of Electrical and Computer Engineering, Northwestern University, Evanston, Illinois, United States, <sup>4</sup>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  $\text{Mn}_3\text{Sn}$  Thin Films**

P. Zhang<sup>1</sup>, J. Lu<sup>1</sup>, V. Lomakin<sup>2</sup>, J. Hong<sup>3</sup>

<sup>1</sup>HBUT, Wuhan, China, <sup>2</sup>UCSD, La Jolla, California, United States, <sup>3</sup>UC Berkeley, Berkeley, California, United States

03:24 PM-03:36 PM

**BF-06. Low frequency noise in  $\text{W}/\text{Mn}_3\text{Sn}$  spin-orbit torque devices**

W. Liang<sup>1</sup>, S. Sakamoto<sup>1</sup>, J. Chen<sup>1</sup>, X. Piao<sup>1</sup>, H. Kosaki<sup>1</sup>, T. Higo<sup>2</sup>, M. Asakura<sup>2</sup>, S. Nakatsuji<sup>1,2,3</sup>, S. Miwa<sup>1</sup>

<sup>1</sup>The Institute for Solid State Physics, The University of Tokyo, Kashiwa, Japan, <sup>2</sup>Department of Physics, The University of Tokyo, Tokyo, Japan, <sup>3</sup>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  $\text{RuO}_2$**

Y. Wang<sup>1,2</sup>, Z. Shen<sup>1</sup>, C. Lin<sup>1</sup>, W. Hsu<sup>1</sup>, Y. Chen<sup>2</sup>, Y. Chin<sup>3</sup>, A. Singh<sup>4</sup>, W. Lee<sup>4</sup>, C. Chen<sup>5</sup>, S. Huang<sup>1,6</sup>, D. Qu<sup>2,6</sup>

<sup>1</sup>Department of Physics, National Taiwan University, Taipei, Taiwan, <sup>2</sup>Center for Condensed Matter Sciences, National Taiwan University, Taipei, Taiwan, <sup>3</sup>Department of Physics, National Chung Cheng University, Chia-Yi, Taiwan, <sup>4</sup>Institute of Physics, Academia Sinica, Taipei, Taiwan, <sup>5</sup>National Synchrotron Radiation Research Center, Taipei, Taiwan, <sup>6</sup>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<sup>1</sup>, P. Tsipas<sup>2</sup>, L. Pandey<sup>1</sup>, A. Dimoulas<sup>2</sup>, S. P. Dash<sup>1</sup>

<sup>1</sup>Chalmers University of Technology, Göteborg, Sweden, <sup>2</sup>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<sup>1</sup>, H. Miyashita<sup>1</sup>, T. Watanabe<sup>2</sup>, E. Negishi<sup>2</sup>, K. Ishiyama<sup>1</sup>

<sup>1</sup>RIEC, Tohoku University, Sendai, Japan, <sup>2</sup>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<sup>1</sup>, Y. Fujii<sup>2</sup>, H. Yoshikawa<sup>2</sup>, A. Tsukamoto<sup>2</sup>

<sup>1</sup>UTokyo, Tokyo, Japan, <sup>2</sup>Nihon Univ., Funabashi, Japan

**02:48 PM-03:00 PM**

**BG-03. Toward back-end-of-line compatible monolithic integration of rare earth iron garnet thin films in photonic integrated circuits by localized laser annealing**

X. Ji, J. Wang, J. Qin, L. Bi

*University of Electronic Science and Technology of China, Chengdu, China*

**03:00 PM-03:12 PM**

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

M. Gaerner<sup>1</sup>, R. Silber<sup>2</sup>, J. Hamrle<sup>3</sup>, T. Kusche<sup>4</sup>

<sup>1</sup>Bielefeld University, Bielefeld, Germany, <sup>2</sup>VSB - Technical University of Ostrava, Ostrava, Czechia, <sup>3</sup>Charles University Prague, Prague, Czechia, <sup>4</sup>Johannes Gutenberg University Mainz, Mainz, Germany

**03:12 PM-03:24 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*

**03:24 PM-03:36 PM**

**BG-06. High-Performance Ultra-Pure Nd<sub>2</sub>Fe<sub>14</sub>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*

**03:36 PM-03:48 PM**

**BG-07. Role of Size, Shape, and Higher-Order Anisotropy in Coercivity of Nd<sub>2</sub>Fe<sub>14</sub>B Nanoparticles**

J. Lisik<sup>1</sup>, A. Terko<sup>1</sup>, T. Schrefl<sup>2</sup>, E. Girt<sup>1</sup>

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

**03:48 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<sub>2</sub>P 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<sup>1</sup>, S. Hirata<sup>2</sup>, T. Ono<sup>2,3</sup>, T. Satoh<sup>1</sup>, K. T. Yamada<sup>1</sup>

<sup>1</sup>Department of Physics, Institute of Science Tokyo, Meguro-ku, Tokyo, Japan, <sup>2</sup>Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan, <sup>3</sup>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-04. Low frequency Magnetic Noise and Charge stochasticity in $\text{AlO}_x$ Magnetic Tunnel Junctions**

C. Chen<sup>1</sup>, Y. Chen<sup>2</sup>, B. Huang<sup>1</sup>, Y. Tang<sup>1</sup>, C. Gonzalez-Ruano<sup>3,4</sup>, F. Aliev<sup>3</sup>, D. Ling<sup>2</sup>, J. Hong<sup>2</sup>

<sup>1</sup>Department of Physics, National Central University, Taoyuan City, Taiwan, <sup>2</sup>Department of Physics, Tamkang University, New Taipei City, Taiwan, <sup>3</sup>Department of Condensed Matter Physics, Universidad Autónoma de Madrid, Madrid, Spain, <sup>4</sup>School of Engineering (ICAI), Universidad Pontificia Comillas, Madrid, Spain

## **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<sup>3</sup>, A. Moreira<sup>1</sup>, A. Heltman<sup>2</sup>

<sup>1</sup>Departamento de Física e Astronomia, Faculdade de Ciências da Universidade do Porto, Porto, Portugal, <sup>2</sup>Department of Physics, Penn State University, University Park, Pennsylvania, United States, <sup>3</sup>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. Savadkoobi

*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<sub>2</sub>O<sub>4</sub> film**

S. Sugiyama<sup>1</sup>, M. Tanaka<sup>1,2,3</sup>, R. Nakane<sup>1,2,4</sup>

<sup>1</sup>Department of Electrical Engineering and Information Systems, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, <sup>2</sup>Center for Spintronics Research Network (CSRN), The University of Tokyo, Bunkyo-ku, Tokyo, Japan, <sup>3</sup>Institute for Nano Quantum Information Electronics, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, <sup>4</sup>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<sup>1</sup>, S. Nakamura<sup>3,4</sup>, M. Kawashima<sup>5</sup>, H. Morishita<sup>2,4</sup>, S. Onoda<sup>6</sup>, Y. Ando<sup>1</sup>

<sup>1</sup>Department of Physics and Electronics, Osaka Metropolitan University, Sakai, Osaka, Japan, <sup>2</sup>Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Miyagi, Japan, <sup>3</sup>Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Miyagi, Japan, <sup>4</sup>WPI Advanced Institute for Materials Research, Tohoku University, Sendai, Miyagi, Japan, <sup>5</sup>Department of Applied Physics, Tohoku University, Sendai, Miyagi, Japan, <sup>6</sup>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<sup>1</sup>, J. Kim<sup>1</sup>, E. Kim<sup>1</sup>, M. Lim<sup>1</sup>, H. Ban<sup>2</sup>, J. Choi<sup>2</sup>, K. Shin<sup>3</sup>

<sup>1</sup>Department of Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), <sup>2</sup>Department of Electrical Engineering, Chungnam National University, Chungnam, Korea (the Republic of), <sup>3</sup>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<sup>1</sup>, G. Shin<sup>1</sup>, M. Kim<sup>1</sup>, S. Kim<sup>2</sup>, J. Choi<sup>2</sup>, K. Shin<sup>1</sup>

<sup>1</sup>Changwon National University, Changwon, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, M. Kim<sup>1</sup>, M. Seo<sup>1</sup>, W. Lee<sup>1</sup>, K. Yu<sup>2</sup>, J. Choi<sup>2</sup>, K. Shin<sup>3</sup>

<sup>1</sup>Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), <sup>2</sup>Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>3</sup>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<sup>1</sup>, M. Park<sup>1</sup>, Y. Noh<sup>1</sup>, K. Lee<sup>1</sup>, J. Lee<sup>2</sup>

<sup>1</sup>Korea Electronics Technology Institute, Bucheon, Korea (the Republic of), <sup>2</sup>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<sup>2</sup>, T. Kim<sup>2</sup>, E. Kim<sup>2</sup>, J. Kim<sup>2</sup>, H. Ban<sup>1</sup>, J. Choi<sup>1</sup>, K. Shin<sup>3</sup>

<sup>1</sup>Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), <sup>3</sup>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<sup>1</sup>, H. Kim<sup>1</sup>, C. Lee<sup>1</sup>, S. Park<sup>1</sup>, W. Kim<sup>2</sup>

<sup>1</sup>Department of Next Generation Smart Energy System Convergence, Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, H. Kim<sup>1</sup>, J. Moon<sup>1</sup>, C. Kim<sup>2</sup>, W. Kim<sup>3</sup>

<sup>1</sup>Department of Next Generation Smart Energy System Convergence, Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of), <sup>2</sup>Department of Electrical Engineering, Wonkwang University, Iksan-si, Jeonbuk-do, Korea (the Republic of), <sup>3</sup>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<sup>1</sup>, J. Yang<sup>1</sup>, S. Kim<sup>1</sup>, H. Yu<sup>1</sup>, C. W. Choi<sup>1</sup>, Y. Yoon<sup>1</sup>, K. Shin<sup>2</sup>, J. Choi<sup>1</sup>

<sup>1</sup>Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>Changwon National University, Changwon, Korea (the Republic of)

## **BQ-12. Harmonic Modeling of PMA-SynRM under PWM Excitation Considering Nonlinear Inductance**

H. Yu<sup>1</sup>, S. Kim<sup>1</sup>, Y. Yoon<sup>1</sup>, C. W. Choi<sup>1</sup>, S. Yoon<sup>1</sup>, K. Shin<sup>2</sup>, J. Choi<sup>1</sup>

<sup>1</sup>Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, H. Ban<sup>1</sup>, S. Eom<sup>1</sup>, K. Shin<sup>2</sup>, J. Choi<sup>1</sup>

<sup>1</sup>Department of Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, K. Yamada<sup>2</sup>, Y. Nakatani<sup>1</sup>

<sup>1</sup>Graduate School of Informatics and Engineering, University of Electro-Communications, Chofu, Tokyo, Japan, <sup>2</sup>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 Propagating Magnons via Substrate Phonons in YIG/GGG**

Y. Soon<sup>1</sup>, M. Song<sup>1</sup>, P. Cao Van<sup>2</sup>, J. Baek<sup>1</sup>, B. Park<sup>3</sup>, J. Jeong<sup>2</sup>, A. M. Park<sup>1</sup>, K. Kim<sup>1</sup>

<sup>1</sup>Physics, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), <sup>2</sup>Materials Science and Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>3</sup>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-07. Strain-Engineered Magnetic Anisotropy and Gilbert Damping of Obliquely Deposited Thin Films on Nanopatterned Substrates**

S. Singh<sup>1</sup>, A. Kumar Bera<sup>2</sup>, S. Chowdary<sup>3</sup>, S. Koyiloth Vayalil<sup>3</sup>, M. Sall<sup>4</sup>, B. Prasad<sup>2</sup>, D. Kumar<sup>1</sup>

<sup>1</sup>Physics Department, UGC-DAE Consortium for Scientific Research, Indore, Madhya Pradesh, India, <sup>2</sup>Department of Materials Engineering, Indian Institute of Science, Bangalore, Karnataka, India, <sup>3</sup>Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany, <sup>4</sup>Université Caen Normandie, CEA, ENSICAEN, CNRS, Normandie Univ., Caen, France

## **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<sub>3</sub>Sn/Co Bilayer Systems

J. Pi<sup>1</sup>, S. Lee<sup>1</sup>, E. Im<sup>1</sup>, H. Kim<sup>1</sup>, T. T. Nguyen<sup>1</sup>, J. Park<sup>2</sup>, S. Kim<sup>1</sup>

<sup>1</sup>University of Ulsan, Ulsan, Korea (the Republic of), <sup>2</sup>Daejeon University, Daejeon, Korea (the Republic of)

## BR-11. Characteristics of multi-mode magnon hybrid interaction

A. M. Park<sup>1</sup>, Y. Soon<sup>1</sup>, S. Yang<sup>1</sup>, J. Lee<sup>1</sup>, P. Cao Van<sup>2</sup>, J. Jeong<sup>2</sup>, K. Kim<sup>1</sup>

<sup>1</sup>Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), <sup>2</sup>Chungnam National University, Daejeon, Korea (the Republic of)

## BR-12. Spin wave propagation in magnonic crystals implemented by laser ablation.

C. L. Ordonez Romero<sup>1</sup>, G. Pirruccio<sup>1</sup>, Z. Lazcano<sup>2</sup>, N. Qureshi<sup>3</sup>

<sup>1</sup>Instituto de Física, Ciudad de Mexico, Mexico, <sup>2</sup>Instituto de Física, BUAP, Puebla, Mexico, <sup>3</sup>ICAT, Ciudad de Mexico, Mexico

## BR-13. The Driving Mechanism of FIB-Induced Spin-Wave Routing: A Magnetoelastic Origin

F. Naunheimer<sup>1</sup>, J. Greil<sup>1</sup>, V. Ahrens<sup>1</sup>, M. Hofschien<sup>1</sup>, D. Albano<sup>1</sup>, L. Maucha<sup>2</sup>, A. Papp<sup>2</sup>, G. Csaba<sup>2</sup>, M. Becherer<sup>1</sup>

<sup>1</sup>Technical University of Munich, Munich, Germany, <sup>2</sup>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<sup>1</sup>, S. Yoshii<sup>2,1</sup>, Y. Ando<sup>1</sup>

<sup>1</sup>Department of Physics and Electronics, Osaka Metropolitan University, Sakai, Osaka, Japan, <sup>2</sup>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<sub>3</sub>GaTe<sub>2</sub>

C. Hsu<sup>2</sup>, H. Shiu<sup>1</sup>, W. Chen<sup>1</sup>, P. Chang<sup>3</sup>, Y. Su<sup>4</sup>

<sup>1</sup>National Synchrotron Radiation Research Center, Hsinchu, Taiwan, <sup>2</sup>Department of Physics, Chung Yuan Christian University, Taoyuan, Taiwan, <sup>3</sup>Department of Physics, Tamkang University, Taipei, Taiwan, <sup>4</sup>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

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## 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

**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<sup>1</sup>, F. Garcia Redondo<sup>2</sup>, L. Verschueren<sup>1</sup>, R. Carpenter<sup>1</sup>, X. Piao<sup>1,3</sup>, J. Chatterjee<sup>1</sup>, M. Gama Monteiro<sup>1</sup>, A. Palomino<sup>1</sup>, N. Jossart<sup>1</sup>, K. Wostyn<sup>1,4</sup>, S. Couet<sup>1,4</sup>, M. Bardon<sup>1</sup>, G. Hellings<sup>1</sup>, G. Sankar Kar<sup>1</sup>, S. Rao<sup>1</sup>

<sup>1</sup>imec, Leuven, Belgium, <sup>2</sup>imec UK, Cambridge, United Kingdom, <sup>3</sup>University of Tokyo, Tokyo, Japan, <sup>4</sup>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<sup>1</sup>, M. Hamdi<sup>1</sup>, S. Cheung<sup>1</sup>, L. Yuan<sup>1</sup>, M. A. Elehtiar<sup>2</sup>, E. Matt<sup>1</sup>, N. Zogbi<sup>8</sup>, W. Rogers<sup>1</sup>, A. Meo<sup>3</sup>, P. G. Lim<sup>1</sup>, M. N. Tey<sup>1</sup>, A. D'Addario<sup>4</sup>, S. Konakanchi<sup>5</sup>, J. G. Athas<sup>1</sup>, S. Arpacı<sup>1</sup>, A. Devinenti<sup>1</sup>, S. Mehta<sup>6</sup>, V. K. Sangwan<sup>1</sup>, J. Fowlie<sup>1</sup>, P. Upadhyaya<sup>5</sup>, M. Carpentieri<sup>3</sup>, V. P. Dravid<sup>1</sup>, M. C. Hersam<sup>1</sup>, J. C. Incorvia<sup>8</sup>, J. Katine<sup>6</sup>, G. Fuchs<sup>4</sup>, G. Finocchio<sup>7</sup>, E. Y. Tsybal<sup>2</sup>, J. M. Rondinelli<sup>1</sup>, P. Khalili Amiri<sup>1</sup>

<sup>1</sup>Northwestern University, Evanston, Illinois, United States, <sup>2</sup>University of Nebraska-Lincoln, Lincoln, Nebraska, United States, <sup>3</sup>Politecnico di Bari, Bari, Italy, <sup>4</sup>Cornell University, Ithaca, New York, United States, <sup>5</sup>Purdue University, West Lafayette, Indiana, United States, <sup>6</sup>Western Digital Corporation, San Jose, California, United States, <sup>7</sup>University of Messina, Messina, Italy, <sup>8</sup>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 RuO<sub>2</sub>**

Z. Li<sup>3,2,1</sup>, Z. Zhang<sup>3,2,1</sup>, X. Lu<sup>3,2</sup>, Y. Xu<sup>3,2,1</sup>

<sup>1</sup>School of Electronic Science and Engineering, Nanjing University, Nanjing, China, <sup>2</sup>School of Integrated Circuits, Nanjing University, Suzhou, China, <sup>3</sup>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<sup>1</sup>, J. Lin<sup>2</sup>, B. Konyangyuen<sup>2</sup>, D. Salomoni<sup>1</sup>, S. Auffret<sup>1</sup>, G. Malinowski<sup>2</sup>, E. Pargon<sup>3</sup>, I. Prejbeanu<sup>1</sup>, M. Hehn<sup>2</sup>, S. Mangin<sup>2,4</sup>, L. D. Buda-Prejbeanu<sup>1</sup>, R. Sousa<sup>1</sup>

<sup>1</sup>Université Grenoble Alpes, CEA, CNRS, Grenoble INP, SPINTEC, Grenoble, France, <sup>2</sup>Université de Lorraine, CNRS, Institut Jean Lamour, Nancy, France, <sup>3</sup>Université Grenoble Alpes, CNRS, CEA/LETI-Minatec, Grenoble INP, LTM, Grenoble, France, <sup>4</sup>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<sub>3</sub>Sn Thin Films**

S. Sakamoto<sup>1, 2, 3</sup>, T. Higo<sup>4</sup>, Y. Fukui<sup>5, 3</sup>, Y. Sumida<sup>5, 3</sup>, H. Kosaki<sup>2</sup>, K. Amemiya<sup>6</sup>, S. Nakatsuji<sup>4, 2, 7</sup>, T. Ohkochi<sup>5, 8, 3</sup>, S. Miwa<sup>2, 3</sup>

<sup>1</sup>Institute for Materials Research, Tohoku University, Sendai, Miyagi, Japan, <sup>2</sup>The Institute for Solid State Physics, The University of Tokyo, Kashiwa, Chiba, Japan, <sup>3</sup>SPRING-8 Center, RIKEN, Sayo, Hyogo, Japan, <sup>4</sup>Department of Physics, The University of Tokyo, Bunkyo, Tokyo, Japan, <sup>5</sup>Laboratory of Advanced Science and Technology for Industry, University of Hyogo, Sayo, Hyogo, Japan, <sup>6</sup>Institute of Materials Structure Science, KEK, Tsukuba, Ibaraki, Japan, <sup>7</sup>Institute for Quantum Matter and Department of Physics and Astronomy, Johns Hopkins University, Baltimore, Maryland, United States, <sup>8</sup>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<sup>1</sup>, E. Heppell<sup>1, 2, 3</sup>, S. Langridge<sup>3</sup>, G. van der Laan<sup>1</sup>, T. Hesjedal<sup>1, 2</sup>

<sup>1</sup>Diamond Light Source, Didcot, United Kingdom, <sup>2</sup>Department of Physics, University of Oxford, Oxford, United Kingdom, <sup>3</sup>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<sub>0.58</sub>Ge<sub>0.42</sub> thin films**

J. Sands<sup>1, 2</sup>, S. Satapathy<sup>1</sup>, O. Bezmertna<sup>3</sup>, S. Virasawmy<sup>1</sup>, A. Gashi<sup>1</sup>, S. Dhuey<sup>1</sup>, A. T. Hammack<sup>1</sup>, C. Fernandez-Gonzalez<sup>4</sup>, A. Sorrentino<sup>4</sup>, T. Bayarar<sup>1</sup>, D. Makarov<sup>3</sup>, S. M. Griffin<sup>1</sup>, F. Hellman<sup>1, 5</sup>, P. Fischer<sup>1, 2</sup>

<sup>1</sup>Lawrence Berkeley National Laboratory, Berkeley, California, United States, <sup>2</sup>UC Santa Cruz, Santa Cruz, California, United States, <sup>3</sup>Helmholtz Center Dresden-Rossendorf, Dresden, Germany, <sup>4</sup>ALBA, Cerdanyola del Vallès, Spain, <sup>5</sup>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<sup>1</sup>, B. Daurer<sup>2</sup>, M. Di Pietro Martínez<sup>1</sup>, A. Hrabec<sup>3, 4</sup>, L. Turnbull<sup>1, 2</sup>, R. Yamamoto<sup>1, 5</sup>, M. Raboni Ferreira<sup>1, 6, 7</sup>, A. Stefancic<sup>8</sup>, D. Mayoh<sup>8</sup>, G. Balakrishnan<sup>8</sup>, P. Vir<sup>1</sup>, C. Shekhar<sup>1</sup>, C. Felser<sup>1</sup>, M. Kazemian<sup>2</sup>, B. Kaulich<sup>2</sup>, C. Donnelly<sup>1, 5</sup>

<sup>1</sup>Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, <sup>2</sup>Diamond Light Source, Harwell Science and Innovation Campus, Didcot, United Kingdom, <sup>3</sup>Laboratory for Mesoscopic Systems, Department of Materials, ETH Zurich, Zurich, Switzerland, <sup>4</sup>Laboratory for Multiscale Materials Experiments, Paul Scherrer Institute, Villigen PSI, Switzerland, <sup>5</sup>International Institute for Sustainability with Knotted Chiral Meta Matter (WPI-SKCM2), Hiroshima University, Hiroshima, Japan, <sup>6</sup>Brazilian Synchrotron Light Laboratory, Brazilian Center for Research in Energy and Materials, Campinas, Brazil, <sup>7</sup>Gleb Wataghin Institute of Physics, University of Campinas, Campinas, Brazil, <sup>8</sup>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<sup>1</sup>, I. Binnie<sup>1</sup>, B. Shearer<sup>1</sup>, S. Yazdi<sup>2</sup>, S. Montoya<sup>3</sup>, E. Fullerton<sup>3</sup>, T. Feggeler<sup>4</sup>, J. Zou<sup>5</sup>, C. Liao<sup>6</sup>, E. Cating-Subramanian<sup>1</sup>, D. Shapiro<sup>7</sup>, J. Miao<sup>8</sup>, H. C. Kapteyn<sup>1</sup>, M. M. Murnane<sup>1</sup>

<sup>1</sup>JILA, Department of Physics, University of Colorado Boulder, Boulder, Colorado, United States, <sup>2</sup>Renewable And Sustainable Energy Institute, University of Colorado Boulder, Boulder, Colorado, United States, <sup>3</sup>University of California, San Diego, La Jolla, California, United States, <sup>4</sup>Brookhaven National Laboratory, Upton, New York, United States, <sup>5</sup>King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, <sup>6</sup>Indiana University Bloomington, Bloomington, Indiana, United States, <sup>7</sup>Lawrence Berkeley National Laboratory, Berkeley, California, United States, <sup>8</sup>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. Chilikina-Jacome<sup>2</sup>, H. Popescu<sup>1</sup>, M. Grelier<sup>3</sup>, M. Di Pietro Martínez<sup>4</sup>, A. Wartelle<sup>5</sup>, G. Beutier<sup>5</sup>, V. Cros<sup>2</sup>, N. Reyren<sup>2</sup>, N. Jaouen<sup>1</sup>

<sup>1</sup>Synchrotron SOLEIL, St Aubin, France, <sup>2</sup>Laboratoire Albert Fert, Palaiseau, France, <sup>3</sup>Spin-Ion Technologies, Palaiseau, France, <sup>4</sup>LCPMR, Paris, France, <sup>5</sup>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<sup>1</sup>, Z. Lin<sup>1</sup>, C. Yu<sup>2</sup>, Y. Hou<sup>2</sup>, J. Yang<sup>1</sup>, Z. Luo<sup>1</sup>

<sup>1</sup>School of Physics, Peking University, Beijing, China, <sup>2</sup>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<sup>1</sup>, C. Huai<sup>1</sup>, G. V. Silva<sup>2</sup>, G. Miao<sup>2</sup>, R. Sabirianov<sup>3</sup>

<sup>1</sup>Department of Physics, University at Buffalo, SUNY, Buffalo, New York, United States, <sup>2</sup>University of Waterloo, Waterloo, Ontario, Canada, <sup>3</sup>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<sup>1</sup>, J. Garland<sup>17,18</sup>, J. Fullerton<sup>18</sup>, J. Huang<sup>2</sup>, T. Zhu<sup>2</sup>, X. Ma<sup>3</sup>, Z. Wang<sup>4</sup>, R. Basnet<sup>19</sup>, S. Chhetri<sup>19</sup>, J. Hu<sup>19</sup>, R. Zhang<sup>6</sup>, Y. Hao<sup>2</sup>, J. Lu<sup>5</sup>, L. He<sup>2</sup>, J. Xu<sup>2</sup>, Y. Zhang<sup>7,8</sup>, W. Jiang<sup>9,10</sup>, J. Tao<sup>4</sup>, S. Lei<sup>11</sup>, P. Parchinskiy<sup>12</sup>, Y. Li<sup>18</sup>, A. Petford-Long<sup>18,20</sup>, L. Wang<sup>5</sup>, W. Niu<sup>13</sup>, X. Zhang<sup>16</sup>, P. Li<sup>2</sup>, C. Phatak<sup>18,20</sup>, E. Santos<sup>1,14,15</sup>

<sup>1</sup>School of Physics and Astronomy, The University of Edinburgh, Edinburgh, United Kingdom, <sup>2</sup>School of Microelectronics, University of Science and Technology of China, Hefei, Anhui, China, <sup>3</sup>College of Integrated Circuits and Optoelectronic Chips, Shenzhen Technology University, Shenzhen, Guangdong, China, <sup>4</sup>Department of Physics, University of Science and Technology of China, Hefei, Anhui, China, <sup>5</sup>Hefei National Research Center for Physical Sciences at Microscale, University of Science and Technology of China, Hefei, Anhui, China, <sup>6</sup>School of Integrated Circuits, Huazhong University of Science and Technology, Wuhan, Hubei, China, <sup>7</sup>State Key Laboratory of High-end Heavy-load Robots Corporate Research Center, Midea Group, Foshan, China, <sup>8</sup>Corporate Research Center, Midea Group, Foshan, China, <sup>9</sup>State Key Laboratory of Low-Dimensional Quantum Physics and Department of Physics, Tsinghua University, Beijing, China, <sup>10</sup>Frontier Science Center for Quantum Information, Tsinghua University, Beijing, China, <sup>11</sup>Hong Kong University of Science and Technology, Hong Kong, Hong Kong, <sup>12</sup>Department of Semiconductor and Polymer Physics, National University of Uzbekistan, Tashkent, Uzbekistan, <sup>13</sup>New Energy Technology Engineering Laboratory of Jiangsu Province, Nanjing

University of Posts and Telecommunications, Nanjing, Jiangsu, China, <sup>14</sup>Higgs Centre for Theoretical Physics, The University of Edinburgh, Edinburgh, United Kingdom, <sup>15</sup>Donostia International Physics Center, Donostia-San Sebastián, Spain, <sup>16</sup>School of Physics, Southeast University, Nanjing, Jiangsu, China, <sup>17</sup>Applied Physics Program, Northwestern University, Evanston, Illinois, United States, <sup>18</sup>Materials Science Division, Argonne National Laboratory, Lemont, Illinois, United States, <sup>19</sup>Department of Physics, University of Arkansas, Fayetteville, Arizona, United States, <sup>20</sup>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  $\text{Cr}_{1/3}\text{TaS}_2$  Nanoflakes**

K. Yamada<sup>1</sup>, N. Jiang<sup>1,2,3</sup>, F. Tokuda<sup>1</sup>, R. Nakamura<sup>1</sup>, H. Shoji<sup>4</sup>, Y. Kousaka<sup>4</sup>, Y. Togawa<sup>4</sup>, Y. Niimi<sup>1,2,3</sup>

<sup>1</sup>Department of Physics, The University of Osaka, Toyonaka, Japan, <sup>2</sup>Center for Spintronics Research Network, The University of Osaka, Toyonaka, Japan, <sup>3</sup>Institute for Open and Transdisciplinary Research Initiatives, The University of Osaka, Toyonaka, Japan,

<sup>4</sup>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/ $\text{Fe}_3\text{GeTe}_2$  Heterostructures**

M. Aoki<sup>1,2</sup>, J. E. Medina Dueñas<sup>2,4</sup>, T. Guillet<sup>2</sup>, V. Zatkó<sup>2</sup>, K. Watanabe<sup>3</sup>, T. Taniguchi<sup>5</sup>, J. H. Garcia<sup>2</sup>, J. F. Sierra<sup>2</sup>, M. Shiraishi<sup>6,7</sup>, S. Roche<sup>2,8</sup>, S. O. Valenzuela<sup>2,8</sup>

<sup>1</sup>The Institute for Solid State Physics, The University of Tokyo, Kashiwa, Chiba, Japan, <sup>2</sup>Catalan Institute of Nanoscience and Nanotechnology, Bellaterra, Barcelona, Spain, <sup>3</sup>Research Center for Electronic and Optical Materials, National Institute for Materials Science, Tsukuba, Ibaraki, Japan, <sup>4</sup>Universitat Autònoma de Barcelona, Bellaterra, Barcelona, Spain, <sup>5</sup>International Center for Materials Nanoarchitectonics, National Institute for Materials Science, Tsukuba, Ibaraki, Japan, <sup>6</sup>Department of Electronic Science and Engineering, Kyoto University, Kyoto, Kyoto, Japan, <sup>7</sup>Center for Spintronics Research Network, Kyoto University, Kyoto, Kyoto, Japan,

<sup>8</sup>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  $\text{MoS}_2$**

A. J. Stollenwerk<sup>1</sup>, C. Sadler<sup>1</sup>, T. Porter<sup>1</sup>, G. Ye<sup>2</sup>, C. Nnokwe<sup>2</sup>, P. Shand<sup>1</sup>, R. He<sup>2</sup>, P. Lukashev<sup>1</sup>

<sup>1</sup>Physics, University of Northern Iowa, Cedar Falls, Iowa, United States, <sup>2</sup>Texas Tech University, Lubbock, Texas, United States

**09:42 AM-09:54 AM**

**CC-07. Emergent topological Hall effect in twisted bilayer  $\text{Fe}_3\text{GeTe}_2$  moiré system**

Y. Li

Nankai University, Tianjin, China

**09:54 AM-10:06 AM**

**CC-08. Carrier-Type-Dependent Valley Polarization Switching in Monolayer  $\text{WSe}_2$  via Single-Contact Electrostatic Doping**

J. Siao<sup>1</sup>, H. Lin<sup>1</sup>, T. Lin<sup>1</sup>, Y. Chu<sup>1</sup>, M. Lin<sup>1,2,3</sup>

<sup>1</sup>Physics, National Taiwan University, Taipei, Taiwan, <sup>2</sup>Institute of Atomic and Molecular Sciences, Academia Sinica, Taipei, Taiwan,

<sup>3</sup>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  $\text{Fe}_3\text{GaTe}_2/\text{V-doped WSe}_2$  heterostructures**

J. Lee<sup>1</sup>, J. Gu<sup>1</sup>, W. Kim<sup>1</sup>, J. Lee<sup>3,5</sup>, W. Chao<sup>4</sup>, K. Lee<sup>2</sup>, Z. Q. Qiu<sup>5</sup>, M. Im<sup>4</sup>, H. Han<sup>1</sup>

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

<sup>5</sup>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<sup>1</sup>, S. Fekraoui<sup>2</sup>, M. Dehaghani<sup>2</sup>, S. Plissard<sup>2</sup>, T. Blon<sup>1</sup>, T. Guillet<sup>1</sup>

<sup>1</sup>LPCNO, Toulouse, France, <sup>2</sup>LAAS, Toulouse, France

10:57 AM-11:09 AM

**CC-11. Epitaxial Growth and Magnetic Ordering of Antiferromagnetic Topological Insulator MnBi<sub>2</sub>Te<sub>4</sub> Thin Films**

S. Choudhury<sup>1</sup>, B. Sharif<sup>1</sup>, R. E. Baumbach<sup>1,2</sup>, D. Lederman<sup>1,2</sup>

<sup>1</sup>Department of Physics, University of California, Santa Cruz, Santa Cruz, California, United States, <sup>2</sup>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<sub>3</sub>/Co Heterostructures**

N. Do<sup>1</sup>, S. Song<sup>2</sup>, S. Park<sup>2</sup>, C. Hwang<sup>3</sup>, T. Kim<sup>1</sup>

<sup>1</sup>Physics, Ewha Womans University, Seoul, Korea (the Republic of), <sup>2</sup>Department of Physics, Pusan National University, Busan, Korea (the Republic of), <sup>3</sup>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<sub>3</sub>Si/ $\alpha$ -FeGe<sub>2</sub> multilayer films**

M. Rovirola<sup>1</sup>, A. Hernández-Mínguez<sup>2</sup>, J. Herfort<sup>2</sup>

<sup>1</sup>University of Barcelona, Barcelona, Spain, <sup>2</sup>Paul-Drude-Institut für Solid State Electronics, Berlin, Germany

11:33 AM-11:45 AM

**CC-14. Strain induced magnetic phase transitions in Fe<sub>3</sub>GeTe<sub>2</sub> monolayer**

A. Jyothi Bhasu<sup>1</sup>, L. Szunyogh<sup>1,2</sup>, L. Rózsa<sup>3,1</sup>, L. Udvardi<sup>1</sup>, L. Oroszlány<sup>4</sup>, G. Martínez-Carracedo<sup>5</sup>, J. Ferrer<sup>5</sup>

<sup>1</sup>Department of Theoretical Physics, Budapest University of Technology and Economics, Budapest, Hungary, <sup>2</sup>HUN-REN-BME Condensed Matter Research Group, Budapest University of Technology and Economics, Budapest, Hungary, <sup>3</sup>Wigner Research Centre of Physics, HUN-REN, Budapest, Hungary, <sup>4</sup>Department of Physics of Complex Systems, Eötvös Loránd University, Budapest, Hungary, <sup>5</sup>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<sup>1,2</sup>, S. Hatayama<sup>3</sup>, K. Hirata<sup>1,2</sup>, T. Hirai<sup>2,1</sup>, S. Takano<sup>1,2</sup>, F. Ando<sup>2</sup>, Y. Nakanishi<sup>1,2</sup>, K. Uchida<sup>1,2</sup>

<sup>1</sup>Department of Advanced Materials Science, Graduate School of Frontier Sciences, The University of Tokyo, Kashiwa, Japan, <sup>2</sup>Research Center for Magnetic and Spintronic Materials, National Institute for Materials Science (NIMS), Tsukuba, Japan, <sup>3</sup>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<sup>1</sup>, S. Caspani<sup>2</sup>, A. Cruz<sup>1</sup>, M. Manso<sup>1</sup>, D. Navas<sup>3</sup>, C. Tavares de Sousa<sup>1</sup>

<sup>1</sup>*Física Aplicada, Universidad Autonoma de Madrid, Madrid, (Seleccionar), Spain,* <sup>2</sup>*IFIMUP, Porto University, Porto, Portugal,* <sup>3</sup>*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<sup>1</sup>, E. Zhang<sup>1</sup>, E. Bondan<sup>1</sup>, M. Accursi<sup>1</sup>, A. Suarez-Perez<sup>2</sup>, J. Merino-Martinez<sup>2</sup>, C. Franco<sup>1</sup>, S. Pané<sup>1</sup>

<sup>1</sup>*MAVT, ETH Zurich, Zürich, Switzerland,* <sup>2</sup>*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<sup>1</sup>, L. Nguyen T. Tran<sup>1</sup>, B. Rezaei<sup>2</sup>, R. Vera<sup>1</sup>, S. Boswell<sup>1</sup>, N. Paul<sup>1</sup>, H. Hridoy<sup>1</sup>, H. Wang<sup>2</sup>, S. Mostufa<sup>2</sup>, K. Wu<sup>2</sup>, M. Zeng<sup>1</sup>, J. Yang<sup>3</sup>, Y. Eo<sup>4</sup>, J. Gomez-Pastora<sup>1</sup>

<sup>1</sup>*Chemical Engineering, Texas Tech University, Lubbock, Texas, United States,* <sup>2</sup>*Electrical & Computer Engineering, Texas Tech University, Lubbock, Texas, United States,* <sup>3</sup>*Mechanical Engineering, Texas Tech University, Lubbock, Texas, United States,* <sup>4</sup>*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<sup>1,2</sup>, E. Dupont<sup>1,2</sup>, L. Artinyan<sup>2</sup>, C. Brunin<sup>3</sup>, M. Piecyk<sup>3</sup>, L. Payen<sup>3</sup>, A. Deman<sup>2</sup>

<sup>1</sup>*Université Lyon 1, CNRS, Institut Lumière Matière, UMR5306, Villeurbanne, France,* <sup>2</sup>*Université Lyon 1, CNRS, INSA Lyon, Ecole Centrale de Lyon, CPE Lyon, INL, UMR5270, Villeurbanne, France,* <sup>3</sup>*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<sup>1,2</sup>, E. Mayr<sup>1,3,4</sup>, J. Ackers<sup>5</sup>, H. Wei<sup>5</sup>, S. Helbig<sup>6</sup>, S. Koraltan<sup>7</sup>, M. Krupinski<sup>8</sup>, D. Suess<sup>6</sup>, M. Graeser<sup>9</sup>, I. K. Herrmann<sup>3,4</sup>

<sup>1</sup>Magnetic and Functional Thin Films, Empa, Duebendorf, Switzerland, <sup>2</sup>Department of Physics, University of Basel, Basel, Switzerland,

<sup>3</sup>Department of Mechanical and Process Engineering, ETH Zurich, Zurich, Switzerland, <sup>4</sup>Ingenuity Lab, Balgrist University Hospital and University of Zurich, Zurich, Switzerland, <sup>5</sup>Fraunhofer Research Institution for Individualized and Cell-Based Medical Engineering, Fraunhofer IMTE, Luebeck, Germany, <sup>6</sup>Physics of Functional Materials, University of Vienna, Vienna, Austria, <sup>7</sup>Department of Physics, Technical University Vienna, Vienna, Austria, <sup>8</sup>Institute of Nuclear Physics Polish Academy of Sciences, Krakov, Poland, <sup>9</sup>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<sup>1</sup>, S. Lee<sup>2</sup>, D. Bono<sup>2</sup>, J. Beckham<sup>4</sup>, M. Christiansen<sup>3</sup>, P. Anikeeva<sup>2</sup>

<sup>1</sup>Electrical Engineering and Computer Science, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States,

<sup>2</sup>Department of Materials Science, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States, <sup>3</sup>ETH Zurich, Zurich, Switzerland, <sup>4</sup>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<sup>1</sup>, T. Afsari<sup>2</sup>, S. Mohapatra<sup>2,3</sup>, S. Mohapatra<sup>4,3</sup>, H. Srikanth<sup>1</sup>

<sup>1</sup>Physics, University of South Florida, Tampa, Florida, United States, <sup>2</sup>Internal Medicine, Morsani College of Medicine, University of South Florida, Tampa, Florida, United States, <sup>3</sup>Research Service, James A., Haley Veterans Hospital, Tampa, Florida, United States,

<sup>4</sup>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<sup>1</sup>, A. Arredondo-López<sup>1</sup>, M. Caseiro<sup>2</sup>, E. Yildiz<sup>1</sup>, I. Joumard<sup>1</sup>, N. Mollard<sup>1</sup>, S. Auffret<sup>1</sup>, J. Faure-Vincent<sup>1</sup>, G. Gaudin<sup>1</sup>, B. Dieny<sup>1</sup>, C. Baraduc<sup>1</sup>, L. Ranno<sup>3</sup>, J. Kammerer<sup>4</sup>, C. Fermon<sup>2</sup>, A. Solignac<sup>2</sup>, M. Pannetier-Lecoeur<sup>2</sup>, J. Fischer<sup>1</sup>, H. Béa<sup>1,5</sup>

<sup>1</sup>Univ. Grenoble Alpes, CNRS, CEA, SPINTEC, Grenoble, France, <sup>2</sup>Université Paris-Saclay, CEA, CNRS, SPEC, Gif-sur-Yvette, France,

<sup>3</sup>Institut Néel, Univ. Grenoble Alpes, CNRS, Grenoble, France, <sup>4</sup>ICube, University of Strasbourg, Strasbourg, France, <sup>5</sup>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<sup>1</sup>, T. Zhu<sup>1</sup>, n. sekiguchi<sup>2</sup>, Y. Kainuma<sup>3</sup>, M. Sekino<sup>1</sup>

<sup>1</sup>Graduate School of Engineering, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, <sup>2</sup>Institute of Science Tokyo, Department of Electrical and Electronic Engineering, Meguro-ku, Tokyo, Japan, <sup>3</sup>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<sup>1,2</sup>, T. Kubota<sup>1</sup>, H. Fukushima<sup>3</sup>, M. Endo<sup>1</sup>, K. Fujiwara<sup>3</sup>, H. Matsuzaki<sup>3</sup>, T. Yoshidome<sup>2</sup>, I. Yamane<sup>4</sup>, K. Onishi<sup>4</sup>, M. Oogane<sup>2,5</sup>, Y. Ando<sup>1,2,5</sup>

<sup>1</sup>Advanced Spintronics Medical Engineering, Tohoku University, Sendai, Miyagi, Japan, <sup>2</sup>Department of Applied Physics, Tohoku University, Sendai, Miyagi, Japan, <sup>3</sup>Spin Sensing Factory Corporation, Sendai, Miyagi, Japan, <sup>4</sup>Otsuka Pharmaceutical Co., Ltd., Chiyoda-ku, Tokyo, Japan, <sup>5</sup>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<sup>1,2</sup>, J. Lim<sup>1</sup>, M. Song<sup>2,3</sup>, S. Krukhlov<sup>4</sup>, T. W. Cecil<sup>4</sup>, U. Welp<sup>2</sup>, R. Divan<sup>5</sup>, K. Kim<sup>3</sup>, V. Novosad<sup>2</sup>, A. Hoffmann<sup>1</sup>, Y. Li<sup>2</sup>

<sup>1</sup>Department of Materials Science and Engineering and Materials Research Laboratory, University of Illinois Urbana Champaign, Urbana, Illinois, United States, <sup>2</sup>Materials Science Division, Argonne National Laboratory, Lemont, Illinois, United States, <sup>3</sup>Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), <sup>4</sup>High Energy Physics Division, Argonne National Laboratory, Lemont, Illinois, United States, <sup>5</sup>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<sup>2</sup>, J. Yao<sup>1</sup>, A. Winkler<sup>3</sup>, D. A. Bas<sup>4</sup>, H. Schmidt<sup>3</sup>, S. Wohlrab<sup>3</sup>, J. Dickovick<sup>5</sup>, V. Sharma<sup>5</sup>, A. Huang<sup>2</sup>, T. Zhou<sup>6</sup>, M. McConney<sup>4</sup>, M. Page<sup>4</sup>, M. Sanghadasa<sup>7</sup>, V. Lauter<sup>8</sup>, M. Wu<sup>5,2</sup>, C. Hu<sup>1</sup>, N. X. Sun<sup>2</sup>

<sup>1</sup>Department of Physics and Astronomy, University of Manitoba, Winnipeg, Manitoba, Canada, <sup>2</sup>Department of Electrical and Computer Engineering, Northeastern University, Boston, Massachusetts, United States, <sup>3</sup>SAW Lab Saxony Leibniz IFW, Leibniz Institute for Solid State and Materials Research, Dresden, Germany, <sup>4</sup>Materials and Manufacturing Directorate Institution, Air Force Research Laboratory, Wright-Patterson AFB, Ohio, United States, <sup>5</sup>Department of Physics, Northeastern University, Boston, Massachusetts, United States, <sup>6</sup>Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States, <sup>7</sup>DEVCOM Aviation & Missile Center, U.S. Army Combat Capabilities Development Command, Huntsville, Alabama, United States, <sup>8</sup>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. Davidková<sup>\*1,3</sup>, F. Bruckner<sup>1</sup>, I. K. Douveas<sup>1</sup>, C. Dubs<sup>2</sup>, K. Levchenko<sup>1</sup>, D. Suess<sup>1</sup>, A. Chumak<sup>1</sup>

<sup>1</sup>Faculty of Physics, University of Vienna, Vienna, Austria, <sup>2</sup>Technologieentwicklung, INNOVENT e. V., Jena, Germany, <sup>3</sup>Faculty of Physics, Vienna Doctoral School of Physics, Vienna, Austria

**10:06 AM-10:18 AM**

**CE-08. Loss Mechanisms and End-to-End Predictive Models of Microwave Spin-wave Circuits**

D. Connelly, J. Chisum

University of Notre Dame, Notre Dame, Indiana, United States

10:18 AM-10:45 AM

Break

10:45 AM-10:57 AM

**CE-09. Optimization of Fe<sub>3</sub>O<sub>4</sub>–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<sup>1</sup>, T. Ohtani<sup>2</sup>, N. V. Kantartzis<sup>1</sup>, Y. Kanai<sup>3</sup>

<sup>1</sup>Aristotle University of Thessaloniki, Thessaloniki, Greece, <sup>2</sup>1-17-134 Omachi, Asahikawa, Japan, <sup>3</sup>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<sup>1</sup>, M. Aoki<sup>1</sup>, A. Daido<sup>2</sup>, R. Ohshima<sup>1</sup>, S. Kasahara<sup>3</sup>, Y. Kasahara<sup>4</sup>, Y. Ando<sup>1</sup>, Y. Matsuda<sup>2</sup>, Y. Yanase<sup>2</sup>, M. Shiraishi<sup>1</sup>

<sup>1</sup>Electronic Science and Engineering, Kyoto University, Kyoto, Japan, <sup>2</sup>Department of Physics, Kyoto University, Kyoto, Japan, <sup>3</sup>RIIS, Okayama University, Okayama, Japan, <sup>4</sup>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<sup>1, 2, 3</sup>, T. Hauet<sup>1, 2, 3</sup>, K. Dumesnil<sup>1, 2, 3</sup>

<sup>1</sup>Institut Jean Lamour, Nancy, France, <sup>2</sup>Université de Lorraine, Nancy, France, <sup>3</sup>CNRS, Nancy, France

08:54 AM-09:06 AM

**CF-03. Magnetic and spin-pumping properties of MgB<sub>2</sub>-based and NbN-based multilayers**

L. Peridon<sup>1, 2, 3</sup>, T. Courtois<sup>1, 2, 3</sup>, S. Mangin<sup>1, 2, 3</sup>, T. Hauet<sup>1, 2, 3</sup>, K. Dumesnil<sup>1, 2, 3</sup>

<sup>1</sup>Institut Jean Lamour, Nancy, France, <sup>2</sup>Université de Lorraine, Nancy, France, <sup>3</sup>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<sup>1</sup>, H. Matsuki<sup>2, 3</sup>, S. Hirata<sup>1</sup>, T. Mandokoro<sup>1</sup>, R. Iijima<sup>1</sup>, R. Hisatomi<sup>2, 3</sup>, S. Karube<sup>2, 3</sup>, Y. Shiota<sup>2, 3</sup>, T. Ono<sup>2, 3, 4</sup>

<sup>1</sup>Graduate School of Science, Kyoto University, Uji, Kyoto, Japan, <sup>2</sup>Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan,

<sup>3</sup>Center for Spintronics Research Network, Kyoto University, Uji, Kyoto, Japan, <sup>4</sup>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<sup>1</sup>, D. Han<sup>2</sup>, N. Kim<sup>2</sup>, G. Baek<sup>1</sup>, K. Kim<sup>1,3</sup>, B. Park<sup>2</sup>

<sup>1</sup>Physics, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), <sup>2</sup>Material Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), <sup>3</sup>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<sub>4</sub>**

S. Toyoda<sup>1</sup>, V. Kocsis<sup>2</sup>, Y. Tokunaga<sup>3</sup>, I. Kézsmárki<sup>4</sup>, Y. Taguchi<sup>1</sup>, T. Arima<sup>1,3</sup>, Y. Tokura<sup>1,5</sup>, N. Ogawa<sup>1</sup>

<sup>1</sup>CEMS, RIKEN, Wako, Japan, <sup>2</sup>Institut für Festkörperforschung, Dresden, Germany, <sup>3</sup>Department of Advanced Materials Science, The University of Tokyo, Kashiwa, Japan, <sup>4</sup>University of Augsburg, Augsburg, Germany, <sup>5</sup>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<sub>3</sub>Sn and Ferromagnets**

M. Asakura<sup>1</sup>, T. Higo<sup>2,1,3</sup>, T. Matsuo<sup>4,1</sup>, Y. Tsushima<sup>1</sup>, S. Kurosawa<sup>1</sup>, R. Uesugi<sup>5,1</sup>, D. Nishio-Hamane<sup>3</sup>, S. Nakatsuji<sup>1,3,4</sup>

<sup>1</sup>Department of Physics, The University of Tokyo, Tokyo, Japan, <sup>2</sup>Department of Electronics and Electrical Engineering, Keio University, Yokohama, Japan, <sup>3</sup>Institute for Solid State Physics, The University of Tokyo, Kashiwa, Japan, <sup>4</sup>Institute for Quantum Matter and Department of Physics and Astronomy, Johns Hopkins University, Baltimore, Maryland, United States, <sup>5</sup>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 HoFeO<sub>3</sub> thin films: structural comparison on SrTiO<sub>3</sub> and LaAlO<sub>3</sub> 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<sup>1</sup>, M. Yamamoto<sup>2</sup>, T. Nishijima<sup>2</sup>, R. Ohshima<sup>2</sup>, M. Shiraishi<sup>2</sup>, Y. Ando<sup>1</sup>

<sup>1</sup>*Physics and Electronics, Osaka Metropolitan Univ., Sakai, Osaka, Japan*, <sup>2</sup>*Electronic Engineering, Kyoto Univ., Kyoto, Japan*

**08:54 AM-09:30 AM**

**CG-04. Giant orbital Rashba-Edelstein effect in crystalline Cu<sub>2</sub>O/Cu heterostructures**

S. Ko<sup>2</sup>, J. Kang<sup>3</sup>, S. Kim<sup>4</sup>, H. Jang<sup>1</sup>, D. Nam<sup>2</sup>, Y. Jung<sup>1</sup>, S. Jeong<sup>2,5</sup>, K. Kim<sup>2</sup>, B. Park<sup>1</sup>

<sup>1</sup>*Materials Science and Engineering, KAIST, Daejeon, Korea (the Republic of)*, <sup>2</sup>*Physics, KAIST, Daejeon, Korea (the Republic of)*,

<sup>3</sup>*Department of Electrical and Computer Engineering, Northwestern University, Evanston, Illinois, United States*, <sup>4</sup>*Pusan National University, Busan, Korea (the Republic of)*, <sup>5</sup>*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<sup>1</sup>, M. Yoo<sup>1</sup>, S. Jeon<sup>2</sup>, Y. Chen<sup>2</sup>, J. Neu<sup>3</sup>, S. Li<sup>1</sup>, W. You<sup>3</sup>, Y. Diao<sup>2</sup>, A. Hoffmann<sup>1</sup>

<sup>1</sup>*Materials Science and Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, United States*, <sup>2</sup>*Chemical and*

*Biomolecular Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, United States*, <sup>3</sup>*Chemistry, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, United States*

**09:42 AM-09:54 AM**

**CG-06. The study of orbital effects in chiral crystal thin films**

Y. Jo<sup>1</sup>, M. Kim<sup>1</sup>, Y. Lee<sup>2</sup>, Y. Kim<sup>2</sup>, S. Hong<sup>2</sup>, H. Kang<sup>2</sup>, K. Lee<sup>2</sup>

<sup>1</sup>*Applied Physics, Korea University, Sejong-si, Korea (the Republic of)*, <sup>2</sup>*Semiconductor Physics, Korea University, Sejong-si, Korea (the Republic of)*

**09:54 AM-10:45 AM**

Break

**10:45 AM-10:57 AM**

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

Y. Kabata<sup>1</sup>, M. Ishida<sup>1</sup>, T. Takeda<sup>3</sup>, M. Tanaka<sup>1,2</sup>, L. Anh<sup>1,2</sup>

<sup>1</sup>*Electrical Engineering and Information Systems, The University of Tokyo, Bunkyo-ku, Tokyo, Japan*, <sup>2</sup>*Spintronics Research Network of Japan, Bunkyo-ku, Tokyo, Japan*, <sup>3</sup>*Department of Chemical System Engineering, The University of Tokyo, Bunkyo-ku, Tokyo, Japan*

**10:57 AM-11:09 AM**

**CG-08. Tunneling of orbital angular momentum**

A. Du<sup>1</sup>, S. Ding<sup>3</sup>, M. Leaic<sup>2</sup>, S. Krishnia<sup>1</sup>, A. Manchon<sup>4</sup>, Y. Mokrousov<sup>1,2</sup>, M. Kläui<sup>1</sup>

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

**11:09 AM-11:45 AM**

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

T. G. Rappoport<sup>1,2,3</sup>

<sup>1</sup>Brazilian Center of Physical Research, Rio de Janeiro, RJ, Brazil, <sup>2</sup>Physics, Minho University, Braga, Portugal, <sup>3</sup>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<sup>1</sup>, Z. Li<sup>1</sup>, Z. Tao<sup>1</sup>, L. Chen<sup>2,3</sup>, P. Liu<sup>2</sup>, S. Zhang<sup>1</sup>, H. Wang<sup>1</sup>, Y. Pu<sup>2</sup>, R. Liu<sup>1,4</sup>

<sup>1</sup>School of Physics, Nanjing University, Nanjing, Jiangsu, China, <sup>2</sup>School of Science, Nanjing University of Posts and Telecommunications, Nanjing, Jiangsu, China, <sup>3</sup>Laboratory of Solid State Microstructures, Nanjing, Jiangsu, China, <sup>4</sup>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<sup>1</sup>, O. Kovalenko<sup>1</sup>, D. Afanasiev<sup>2</sup>, A. V. Kimmel<sup>2</sup>, R. V. Mikhaylovskiy<sup>1</sup>

<sup>1</sup>Physics Department, Lancaster University, Lancaster, United Kingdom, <sup>2</sup>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<sup>1</sup>, A. M. Park<sup>1</sup>, K. Kim<sup>1,2</sup>

<sup>1</sup>Physics, KAIST, Daejeon, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, L. Scheuer<sup>1</sup>, W. Wu<sup>1</sup>, N. Parvez<sup>1</sup>, A. Kefayati<sup>1</sup>, J. Q. Xiao<sup>1</sup>, B. Nikolic<sup>1</sup>, B. Jungfleisch<sup>1</sup>, L. Gundlach<sup>1,2</sup>

<sup>1</sup>Physics and Astronomy, University of Delaware, Newark, Delaware, United States, <sup>2</sup>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<sup>1</sup>, V. Raposo<sup>4,2</sup>, Q. Remy<sup>3</sup>, C. Henri<sup>1</sup>, J. Hohlfeld<sup>1</sup>, M. Hehn<sup>1,5</sup>, E. Martinez Vecino<sup>4,2</sup>, H. Jaffrès<sup>6</sup>, S. Mangin<sup>1,5</sup>

<sup>1</sup>IJL, Université de Lorraine, CNRS, Nancy, France, <sup>2</sup>Unidad de Excelencia en Luz y Materia Estructuradas (LUMES), Universidad de Salamanca, Salamanca, Spain, <sup>3</sup>Department of Physics, Freie Universität Berlin, Berlin, Germany, <sup>4</sup>Dpto. Física Aplicada, Universidad de Salamanca, Salamanca, Spain, <sup>5</sup>Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan, <sup>6</sup>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<sup>1</sup>, G. Lang<sup>1</sup>, N. Smith<sup>1,2</sup>, Y. Pleimling<sup>1</sup>, A. T. Hanbicki<sup>2</sup>, A. Friedman<sup>2</sup>, B. Magill<sup>1</sup>, H. Munekata<sup>3,1</sup>, G. Khodaparast<sup>1</sup>

<sup>1</sup>Physics, Virginia Tech, Blacksburg, Virginia, United States, <sup>2</sup>Laboratory of Physical Sciences, College Park, Maryland, United States, <sup>3</sup>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

Université 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<sup>1,4,5</sup>, M. Ipatov<sup>3</sup>, A. Aronin<sup>6</sup>, G. Abrosimova<sup>6</sup>, A. Zhukov<sup>1,2,5</sup>

<sup>1</sup>Dept. Appl. Phys., University of the Basque Country, San Sebastian, Spain, <sup>2</sup>IKERBASQUE, Basque Foundation for Science, Bilbao, Spain, <sup>3</sup>Magnetic Measurement Service of Advanced Research Facilities (SGIker), University of the Basque Country, EHU, San Sebastian, Spain, <sup>4</sup>Dept. Polym. Adv. Mater., University of the Basque Country, EHU, San Sebastian, Spain, <sup>5</sup>EHU Quantum Center, University of the Basque Country, EHU, San Sebastian, Spain, <sup>6</sup>Institute of Solid State Physics, Russian Academy of Science, Chernogolovka, Russian Federation

**CP-03. Production of Fe<sub>16</sub>N<sub>2</sub> bulk magnets**

T. Saito<sup>1</sup>, H. Yamamoto<sup>2</sup>

<sup>1</sup>Chiba Institute of Technology, Narashino, Japan, <sup>2</sup>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<sup>1</sup>, A. Kovacs<sup>2</sup>, H. Oezelt<sup>2</sup>, D. Böhm<sup>2</sup>, T. Schrefl<sup>2</sup>, I. Betancourt<sup>1</sup>

<sup>1</sup>Autonomous University of Mexico, México City, Mexico, <sup>2</sup>University for Continuing Education Krems, Vienna, Austria

## CP-06. First-principles design of Fe<sub>2</sub>Ge-based alloys as rare-earth-free permanent magnets

K. Baatartsogt<sup>1</sup>, O. Dorj<sup>2</sup>

<sup>1</sup>Institute of Physics and Technology, Mongolian Academy of Sciences, Ulaanbaatar, Mongolia, <sup>2</sup>Incheon National University, Incheon, Korea (the Republic of)

## CP-07. Perpendicular magnetic anisotropy in CoFe<sub>2</sub>Cu thin films

D. Alharbi<sup>1,2</sup>, F. Efe<sup>1</sup>, F. Bakhshizadeh<sup>1</sup>, M. Guy<sup>1</sup>, A. Lisfi<sup>1</sup>

<sup>1</sup>Physics, Morgan State University, Baltimore, Maryland, United States, <sup>2</sup>The Catholic University of America, DC, District of Columbia, United States

## CP-08. Efficient Preparation and Magnetic Characterization of $\tau$ -phase Mn-Al

K. N. Ndaru<sup>1</sup>, T. F. McKenzie<sup>1</sup>, R. Chapai<sup>2</sup>, M. Khan<sup>1</sup>

<sup>1</sup>Department of Physics, Miami University, Oxford, Ohio, United States, <sup>2</sup>Department of Physics, Norfolk State University, Norfolk, Virginia, United States

## CP-09. Phase Stabilities and Magnetic Properties of Fe-substituted Mn<sub>3</sub>Ga with tetragonal structure

H. Okada<sup>1</sup>, H. Fujita<sup>1</sup>, S. Awaji<sup>2</sup>

<sup>1</sup>Tohoku Gakuin University, Sendai, Japan, <sup>2</sup>Tohoku University, Sendai, Japan

## CP-10. Tuning Magnetic Anisotropy in Fe<sub>3</sub>Sn Nanowire Arrays through Shape Effects and Annealing

A. A. Mendonça<sup>1</sup>, V. M. Prida<sup>2</sup>, F. Béron<sup>1</sup>

<sup>1</sup>Instituto de Física Gleb Wataghin, Universidade Estadual de Campinas, Campinas, São Paulo, Brazil, <sup>2</sup>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<sub>0.7</sub>Co<sub>0.3</sub>)<sub>2</sub>B 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<sup>1</sup>, O. Tumentsereg<sup>1</sup>, M. Adiya<sup>1</sup>, U. Amanjal<sup>2</sup>, U. Enkhnarant<sup>2</sup>, O. Dorj<sup>1</sup>

<sup>1</sup>Physics, Incheon National University, Yeonsu-Gu, Incheon, Korea (the Republic of), <sup>2</sup>Institute of Physics and Technology, Ulaanbaatar, Mongolia

## CP-16. Giant-coercivity $\epsilon$ -Fe<sub>2</sub>O<sub>3</sub> phase stabilization via lattice incorporation of Si impurities: Insights from a combined DFT and Mössbauer study

D. Kubániová<sup>1,2</sup>, J. Kohout<sup>1</sup>, L. Kubicková<sup>2,1</sup>, T. Kmjec<sup>1</sup>, V. Chlan<sup>1</sup>, P. Brázda<sup>2</sup>, M. Klementová<sup>2</sup>, P. Bezdička<sup>3</sup>

<sup>1</sup>Faculty of Mathematics and Physics, Charles University, Prague, Czechia, <sup>2</sup>FZU – Institute of Physics of the Czech Academy of Sciences, Prague, Czechia, <sup>3</sup>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<sup>1</sup>, H. Kim<sup>1</sup>, Y. Lim<sup>1</sup>, C. Kim<sup>2</sup>, W. Kim<sup>3</sup>

<sup>1</sup>Department of Next Generation Smart Energy System Convergence, Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of), <sup>2</sup>Department of Electrical Engineering, Wonkwang University, Iksan-si, Jeonbuk-do, Korea (the Republic of), <sup>3</sup>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<sup>2</sup>, K. Yu<sup>2</sup>, H. Ban<sup>2</sup>, J. Park<sup>2</sup>, J. Choi<sup>2</sup>, K. Shin<sup>1</sup>

<sup>1</sup>Changwon National University, Changwon, Korea (the Republic of), <sup>2</sup>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<sup>2</sup>, G. Shin<sup>2</sup>, G. Lee<sup>2</sup>, S. Kim<sup>1</sup>, J. Choi<sup>1</sup>, K. Shin<sup>2</sup>

<sup>1</sup>Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, M. Park<sup>1</sup>, Y. Noh<sup>1</sup>, K. Lee<sup>1</sup>, J. Lee<sup>2</sup>

<sup>1</sup>Korea Electronics Technology Institute, Bucheon, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, S. Kim<sup>1</sup>, M. Koo<sup>2</sup>, H. Shin<sup>3</sup>, J. Choi<sup>1</sup>

<sup>1</sup>Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>Purpose Built Mobility Group, Korea Institute of Industrial Technology, Gwangju, Korea (the Republic of), <sup>3</sup>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<sup>1</sup>, M. Seo<sup>1</sup>, W. Lee<sup>1</sup>, H. Lee<sup>1</sup>, K. Yu<sup>2</sup>, J. Choi<sup>2</sup>, K. Shin<sup>3</sup>

<sup>1</sup>Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), <sup>2</sup>Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>3</sup>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<sup>1</sup>, J. Yang<sup>1</sup>, T. Kim<sup>1</sup>, K. Yu<sup>1</sup>, K. Shin<sup>2</sup>, J. Choi<sup>1</sup>

<sup>1</sup>Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, Y. Yoon<sup>1</sup>, S. Kim<sup>1</sup>, K. Shin<sup>2</sup>, J. Choi<sup>1</sup>

<sup>1</sup>Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, S. Park<sup>1</sup>, Y. Lim<sup>1</sup>, C. Jin<sup>2</sup>, W. Kim<sup>3</sup>

<sup>1</sup>Department of Next Generation Energy System Convergence, Gachon University, Seongnam-Si, Korea (the Republic of), <sup>2</sup>Department of Electrical Engineering, Wonkwang University, Iksan-Si, Korea (the Republic of), <sup>3</sup>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<sup>1</sup>, H. Kim<sup>1</sup>, J. Moon<sup>1</sup>, C. Lee<sup>1</sup>, W. Kim<sup>2</sup>

<sup>1</sup>Department of Next Generation Energy System Convergence, Gachon University, Seongnam-Si, Gyeonggi-Do, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, T. Kim<sup>1</sup>, S. Eom<sup>1</sup>, H. Ban<sup>1</sup>, S. Kim<sup>1</sup>, J. Park<sup>1</sup>, K. Shin<sup>2</sup>, J. Choi<sup>1</sup>

<sup>1</sup>Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, M. Kim<sup>1</sup>, S. Woo<sup>1</sup>, J. Park<sup>2</sup>, J. Choi<sup>3</sup>, K. Shin<sup>4</sup>

<sup>1</sup>Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), <sup>2</sup>Chungnam National University, Daejeon, Korea (the Republic of), <sup>3</sup>Chungnam National University, Daejeon, Korea (the Republic of), <sup>4</sup>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<sup>1</sup>, W. Jung<sup>1</sup>, K. Shin<sup>2</sup>, J. Choi<sup>1</sup>

<sup>1</sup>Department of Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, W. Jung<sup>1</sup>, H. Yu<sup>1</sup>, C. W. Choi<sup>1</sup>, S. Yoon<sup>1</sup>, K. Shin<sup>2</sup>, J. Choi<sup>1</sup>

<sup>1</sup>Electrical Engineering, Chungnam National University, Daejeon, Daejeon, Korea (the Republic of), <sup>2</sup>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, *NEST, 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<sup>1</sup>, S. Amara<sup>1</sup>, H. Bagci<sup>1</sup>, G. Setti<sup>2</sup>

<sup>1</sup>CEMSE, King Abdullah University of Science and Technology, Thuwal, Makkah, Saudi Arabia, <sup>2</sup>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<sup>1</sup>, C. Wan<sup>1,2</sup>, X. Han<sup>1,3,2</sup>

<sup>1</sup>Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, University of Chinese Academy of Sciences, Chinese Academy of Sciences, Beijing, Beijing, China, <sup>2</sup>Songshan Lake Materials Laboratory, Dongguan, Guangdong, China, <sup>3</sup>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<sup>1,2</sup>, A. Angotti<sup>2</sup>, A. Begue<sup>1</sup>, Y. Wei<sup>1</sup>, F. Maspero<sup>2</sup>, R. Bertacco<sup>2</sup>, D. Sanz Hernandez<sup>1</sup>, J. Grollier<sup>1</sup>

<sup>1</sup>Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France, <sup>2</sup>Department of Physics, Politecnico di Milano, Milan, Italy

### CR-08. Spin-regulated Synaptic Plasticity in Memristors Based on HfO<sub>x</sub>-Co Granular Films

H. Zhu<sup>1</sup>, Z. Yang<sup>1</sup>, J. Zhu<sup>1</sup>, S. Zheng<sup>1</sup>, Z. Yang<sup>1</sup>, Y. Ma<sup>1</sup>, S. Zhang<sup>1,2</sup>, M. Gong<sup>1</sup>, T. YU<sup>1</sup>

<sup>1</sup>College of Physics, Sichuan University, Chengdu, Sichuan, China, <sup>2</sup>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<sup>1,2</sup>, Y. Miyasaka<sup>1</sup>

<sup>1</sup>Department of Electrical Engineering and Information Systems, The University of Tokyo, Tokyo, Japan, <sup>2</sup>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<sup>1</sup>, F. Abreu Araujo<sup>1</sup>, J. Gartside<sup>2,3</sup>, T. da Câmara Santa Clara Gomes<sup>4,1</sup>

<sup>1</sup>Institute of Condensed Matter and Nanosciences, Université catholique de Louvain, Louvain-la-Neuve, Belgium, <sup>2</sup>Blackett Laboratory, Imperial College London, London, United Kingdom, <sup>3</sup>London Centre for Nanotechnology, Imperial College London, London, United Kingdom, <sup>4</sup>Microsistemas e Nanotecnologias (INESC MN), Instituto de Engenharia de Sistemas E Computadores, Lisbon, Portugal

## CR-11. Reconfigurable Spintronic Diodes for Neuromorphic Computing

A. Begue<sup>1</sup>, H. Singh<sup>2</sup>, Y. Wei<sup>1</sup>, L. Herrera Diez<sup>3</sup>, A. Durnez<sup>3</sup>, B. Dlubak<sup>1</sup>, J. Grollier<sup>1</sup>, D. Sanz Hernandez<sup>1</sup>

<sup>1</sup>Laboratoire Albert Fert, CNRS-Thales, Univ. Paris Saclay, Palaiseau, France, <sup>2</sup>VTT Technical Research Center of Finland, Helsinki, Finland, <sup>3</sup>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<sup>1,2</sup>, S. Uchiyama<sup>1</sup>, R. Feng<sup>1</sup>, L. Guofei<sup>1</sup>, R. Hamada<sup>1</sup>, Y. Ono<sup>1</sup>, H. Asada<sup>3</sup>, Y. Fukuma<sup>1,2</sup>

<sup>1</sup>Department of Physics and Information Technology, Faculty of Computer Science and Systems Engineering, Kyushu Institute of Technology, Iizuka, Fukuoka, Japan, <sup>2</sup>Research Center for Neuromorphic AI hardware, Kyushu Institute of Technology, Kitakyushu, Fukuoka, Japan, <sup>3</sup>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<sup>1</sup>, R. Kusunose<sup>1</sup>, O. A. Velasco Cardenas<sup>1</sup>, A. Schmid<sup>2</sup>, K. Ando<sup>1</sup>, T. Asai<sup>1</sup>, T. Marukame<sup>1</sup>

<sup>1</sup>Hokkaido University, Sapporo, Hokkaido, Japan, <sup>2</sup>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. Suggala, 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<sup>1</sup>, C. Paleo<sup>1</sup>, C. Ricolleau<sup>2</sup>, O. Boisson<sup>1</sup>, V. Dupuis<sup>1</sup>

<sup>1</sup>Université Lyon 1, CNRS, Institut Lumière Matière, UMR5306, Villeurbanne, France, <sup>2</sup>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<sup>1</sup>, M. Islam<sup>2</sup>, L. Rodriguez<sup>2</sup>, M. Rashid<sup>1</sup>, J. Tate<sup>3,2</sup>, D. E. Smith<sup>4</sup>, W. Geerts<sup>1,2</sup>

<sup>1</sup>Physics, Texas State University, San Marcos, Texas, United States, <sup>2</sup>MSEC, Texas State University, San Marcos, Texas, United States,

<sup>3</sup>Ingram School of Engineering, Texas State University, San Marcos, Texas, United States, <sup>4</sup>Department of Mechanical Engineering, Baylor University, Waco, Texas, United States

## **CS-06. 4D-printed Sacrificial Fe<sub>2</sub>N-Alginate Microfibers for Perfusable Hydrogel Microchannels**

Z. Rajestari<sup>1</sup>, N. Tarabay<sup>2</sup>, L. Paulsen<sup>1</sup>, L. Kulinsky<sup>1</sup>, C. Velez<sup>1,2</sup>

<sup>1</sup>Department of Mechanical and Aerospace Engineering, University of California, Irvine, Irvine, California, United States, <sup>2</sup>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<sup>1</sup>, L. Rodriguez<sup>1</sup>, B. Banjara<sup>2</sup>, J. Tate<sup>2,1</sup>, W. Geerts<sup>3,1</sup>

<sup>1</sup>MSEC, Texas State University, San Marcos, Texas, United States, <sup>2</sup>Ingram School of Engineering, Texas State University, San Marcos, Texas, United States, <sup>3</sup>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<sup>1,2</sup>, T. Voltrova<sup>1,2</sup>, J. Kulickova<sup>1</sup>, P. Veverka<sup>1</sup>, K. Ahn<sup>1</sup>, D. Kubaniová<sup>2,1</sup>, J. Kohout<sup>2</sup>, O. Kaman<sup>1</sup>

<sup>1</sup>FZU - Institute of Physics of the Czech Academy of Sciences, Praha, Czechia, <sup>2</sup>Faculty of Mathematics and Physics, Charles University, Praha, Czechia

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

R. Mendonsa<sup>1</sup>, S. Liang<sup>2</sup>, J. Wang<sup>1,2</sup>

<sup>1</sup>Electrical and Computer Engineering, University of Minnesota, Minneapolis, Minnesota, United States, <sup>2</sup>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<sup>1</sup>, R. Gautam<sup>2</sup>, K. Chesnel<sup>2</sup>

<sup>1</sup>Eastern Michigan University, Ypsilanti, Michigan, United States, <sup>2</sup>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

Coral 5

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. MTJ-Based ROM-Overlayed RAM for AI 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<sup>1,2</sup>, S. Le<sup>1</sup>, N. Smith<sup>1</sup>, E. C. Usih<sup>3</sup>, A. Thomas<sup>1</sup>, C. Richardson<sup>1</sup>, N. Blumenschein<sup>1</sup>, A. T. Hanbicki<sup>1</sup>, A. Friedman<sup>1</sup>, J. S. Friedman<sup>3</sup>

<sup>1</sup>Laboratory for Physical Sciences, College Park, Maryland, United States, <sup>2</sup>Electrical and Computer Engineering, University of Maryland, College Park, Maryland, United States, <sup>3</sup>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<sup>1,2</sup>, P. Wu<sup>3,1</sup>, C. Chen<sup>1</sup>, S. Huang<sup>1,4</sup>, X. Fan<sup>5</sup>, D. Qu<sup>2,4</sup>

<sup>1</sup>Department of Physics, National Taiwan University, Taipei, Taiwan, <sup>2</sup>Center for Condensed Matter Sciences, National Taiwan University, Taipei, Taiwan, <sup>3</sup>Delta Electronics, Taipei, Taiwan, <sup>4</sup>Center of Atomic Initiatives for New Materials, National Taiwan University, Taipei, Taiwan, <sup>5</sup>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<sup>1</sup>, C. H. Bennett<sup>1</sup>, S. Liu<sup>2,3</sup>, N. Zogbi<sup>3</sup>, I. Velazquez<sup>3</sup>, H. Jin<sup>3</sup>, Z. A. Landers<sup>3</sup>, R. Patel<sup>1</sup>, D. Hughart<sup>1</sup>, S. Agarwal<sup>1</sup>

<sup>1</sup>Sandia National Laboratories, Albuquerque, New Mexico, United States, <sup>2</sup>National Institute of Standards and Technology, Boulder, Colorado, United States, <sup>3</sup>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<sup>1</sup>, E. Park<sup>1</sup>, J. Ingla-Aynes<sup>1</sup>, J. Klein<sup>1</sup>, K. Mosina<sup>2</sup>, Y. Onishi<sup>1</sup>, Q. Wang<sup>1</sup>, J. S. Moodera<sup>1</sup>, Z. Sofer<sup>2</sup>, F. Ross<sup>1</sup>, M. Li<sup>1</sup>, L. Fu<sup>1</sup>, L. Liu<sup>1</sup>

<sup>1</sup>MIT, Cambridge, Massachusetts, United States, <sup>2</sup>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<sup>1</sup>, E. Jeong<sup>1</sup>, K. Nam<sup>2</sup>, Y. Kim<sup>1</sup>

<sup>1</sup>Korea University, Seoul, Seoul, Korea (the Republic of), <sup>2</sup>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<sup>1,2</sup>, R. Yamada<sup>1</sup>, M. Birch<sup>2</sup>, P. Baral<sup>1,2</sup>, S. Okumura<sup>5,1,2</sup>, M. Ezawa<sup>1</sup>, J. Masell<sup>3</sup>, T. Nomoto<sup>4</sup>, M. M. Hirschmann<sup>2</sup>

<sup>1</sup>Applied Physics, The University of Tokyo, Bunkyo, Tokyo, Japan, <sup>2</sup>Center for Emergent Matter Science, RIKEN, Wako, Saitama, Japan, <sup>3</sup>Karlsruhe Institute of Technology, Karlsruhe, Germany, <sup>4</sup>Physics, Tokyo Metropolitan University, Hachioji, Tokyo, Japan, <sup>5</sup>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<sup>1</sup>, B. Ghimire<sup>2</sup>, M. Thakurathi<sup>2</sup>

<sup>1</sup>Physics, Indian Institute of Technology, Delhi, New Delhi, Delhi, India, <sup>2</sup>Physics, Indian Institute of Technology, Hyderabad, Hyderabad, Telangana, India

03:24 PM-03:36 PM

**DB-04. Symmetry-Enforced Nodal f-Wave Magnets**

M. M. Hirschmann<sup>1</sup>, A. Furusaki<sup>1</sup>, M. Hirschberger<sup>2</sup>

<sup>1</sup>Center for Emergent Matter Science, RIKEN, Wako, Japan, <sup>2</sup>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<sub>2</sub> 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<sub>2</sub>O<sub>3</sub>Mn<sub>2</sub>Se<sub>2</sub>**

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<sup>1</sup>, A. Badura<sup>2</sup>, E. Dolan<sup>1</sup>, S. Beckert<sup>3</sup>, I. Kounta<sup>4</sup>, W. Campos<sup>5</sup>, J. Rial<sup>6</sup>, D. Kriegner<sup>2</sup>, V. Baltz<sup>6</sup>, L. Hueso<sup>1</sup>, J. Sinova<sup>5</sup>, O. Gomonay<sup>5</sup>, T. Jungwirth<sup>2</sup>, L. Smejkal<sup>7</sup>, L. Michez<sup>4</sup>, H. Reichlova<sup>2</sup>, F. Casanova<sup>1</sup>

<sup>1</sup>nanogune, San Sebastian, Spain, <sup>2</sup>FZU, Prague, Czechia, <sup>3</sup>TU Dresden, Dresden, Germany, <sup>4</sup>CINaM-CNRS, Marseille, France, <sup>5</sup>JGU, Mainz, Germany, <sup>6</sup>SPINTEC, Grenoble, France, <sup>7</sup>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<sub>2</sub>O<sub>4</sub> 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<sub>3</sub> 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<sup>1</sup>, J. E. Shoup<sup>2</sup>, T. Hanashima<sup>3</sup>, A. J. Grutter<sup>1</sup>, P. P. Balakrishnan<sup>1</sup>, E. Jeong<sup>1</sup>, A. Friedland<sup>1</sup>, E. Welp<sup>1</sup>, A. Caruana<sup>4</sup>, C. Kinane<sup>4</sup>, T. Charlton<sup>5</sup>, D. B. Gopman<sup>2</sup>, P. Gehring<sup>1</sup>, J. Borchers<sup>1</sup>

<sup>1</sup>NCNR, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, <sup>2</sup>MSE, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, <sup>3</sup>Neutron Science and Technology Center, CROSS, Tokai, Ibaraki, Japan, <sup>4</sup>ISIS Neutron and Muon Source, STFC Rutherford Appleton Laboratory, Didcot, United Kingdom, <sup>5</sup>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<sup>1</sup>, F. Celegato<sup>1</sup>, A. Magni<sup>1</sup>, G. Barrera<sup>1</sup>, M. Coisson<sup>1</sup>, P. Rizzi<sup>2</sup>, P. Tiberto<sup>1</sup>

<sup>1</sup>Advance Materials and Life sciences, INRIM, Torino, Italy, <sup>2</sup>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<sub>2</sub>**

Y. Tao<sup>1</sup>, P. Jain<sup>1</sup>, Y. Zhang<sup>1</sup>, F. Tutt<sup>1</sup>, A. Paul<sup>1</sup>, D. Phelan<sup>2</sup>, C. Balz<sup>3</sup>, S. Hatt<sup>4</sup>, J. Neufeind<sup>3</sup>, S. Rosenkranz<sup>2</sup>, B. Frandsen<sup>4</sup>, T. Birol<sup>1</sup>, C. Leighton<sup>1</sup>

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

03:36 PM-03:48 PM

**DC-07. Unusual metamagnetism studied with  $^{57}\text{Fe}$  Mössbauer spectroscopy in  $\text{BaRFeO}_4$  multiferroics**

L. Kubickova<sup>1,2</sup>, T. Kmjec<sup>1</sup>, M. Rozprym<sup>1</sup>, M. Veverka<sup>1</sup>, D. Kubániová<sup>1,2</sup>, V. Chlan<sup>1</sup>, C. Kadlec<sup>2</sup>, F. Kadlec<sup>2</sup>, J. Kohout<sup>1</sup>

<sup>1</sup>Faculty of Mathematics and Physics, Charles University, Prague, Czechia, <sup>2</sup>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<sup>1</sup>, C. Jensen<sup>1,2</sup>, Z. Zeng<sup>1</sup>, C. Liu<sup>3</sup>, Y. Liu<sup>1</sup>, N. Naushin<sup>4</sup>, G. Leigh<sup>1</sup>, C. Kinane<sup>5</sup>, A. Caruana<sup>5</sup>, J. Herz<sup>1,6</sup>, A. Liu<sup>1</sup>, G. Yin<sup>1</sup>, Y. Ijiri<sup>7</sup>, R. Kukreja<sup>4</sup>, A. J. Grutter<sup>2</sup>, J. Borchers<sup>2</sup>, X. Zhang<sup>3</sup>, K. Liu<sup>1</sup>

<sup>1</sup>Physics Department, Georgetown University, Washington, District of Columbia, United States, <sup>2</sup>NIST Center for Neutron Research, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, <sup>3</sup>King Abdullah University of Science & Technology, Thuwal, Saudi Arabia, <sup>4</sup>Department of Materials Science and Engineering, University of California, Davis, Davis, California, United States, <sup>5</sup>STFC Rutherford Appleton Laboratory, ISIS Neutron Facility, Didcot, United Kingdom, <sup>6</sup>Department of Physics, College of William & Mary, Williamsburg, Virginia, United States, <sup>7</sup>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  $\text{PdCo}_{1-x}\text{Cr}_x\text{O}_2$**

P. Jain<sup>1</sup>, F. Tutt<sup>1</sup>, Y. Zhang<sup>1</sup>, Y. Tao<sup>1</sup>, S. Sharma<sup>2</sup>, I. Khayr<sup>2</sup>, M. Greven<sup>2</sup>, C. Leighton<sup>1</sup>

<sup>1</sup>Chemical Engineering and Materials Science, University of Minnesota Twin Cities, Minneapolis, Minnesota, United States, <sup>2</sup>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<sup>1</sup>, M. Littlehales<sup>2</sup>, D. Mayoh<sup>3</sup>, D. Alba Venero<sup>4</sup>, G. Balakrishnan<sup>5</sup>, P. Hatton<sup>5</sup>, J. S. White<sup>1</sup>

<sup>1</sup>Laboratory for Neutron Scattering, Paul Scherrer Institute, Villigen, Aargau, Switzerland, <sup>2</sup>Physik-Department, Technische Universität München, Garching, Bavaria, Germany, <sup>3</sup>Physics Department, University of Warwick, Coventry, England, United Kingdom, <sup>4</sup>ISIS Neutron and Muon Source, Didcot, United Kingdom, <sup>5</sup>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<sup>1,2</sup>

<sup>1</sup>Department of Materials Science and Engineering, Monash University, Clayton, Victoria, Australia, <sup>2</sup>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<sup>2</sup>, H. Baldino<sup>2</sup>, D. Hedlund<sup>1</sup>, P. Kulik<sup>2,1</sup>, Y. Sohn<sup>2</sup>

<sup>1</sup>Department of Electrical and Computer Engineering, University of Central Florida, Orlando, Florida, United States, <sup>2</sup>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<sup>1</sup>, Z. Wang<sup>1</sup>, P. Ohodnicki<sup>1</sup>, T. Schrefl<sup>2</sup>

<sup>1</sup>University of Pittsburgh, Pittsburgh, Pennsylvania, United States, <sup>2</sup>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<sup>1</sup>, R. Lebourgeois<sup>3</sup>, R. Mansour<sup>3</sup>, D. Caban-Chastas<sup>1</sup>, Q. Todoli<sup>1</sup>, V. Laur<sup>2</sup>

<sup>1</sup>Thales DMS, Elancourt, France, <sup>2</sup>LAB-STICC, Brest, France, <sup>3</sup>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<sup>1</sup>, T. Ogasawara<sup>2</sup>, S. Hiramoto<sup>1</sup>, H. Tsukahara<sup>1</sup>, T. Taniguchi<sup>1</sup>, K. Suzuki<sup>3</sup>, S. Okamoto<sup>1,4</sup>

<sup>1</sup>Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai, Miyagi, Japan, <sup>2</sup>National Institute of Advanced Industrial Science and Technology, Tsukuba, Ibaraki, Japan, <sup>3</sup>Department of Materials Science and Engineering, Monash University, Clayton, Victoria, Australia, <sup>4</sup>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 fine magnetic domain structure in soft magnetic materials**

H. Tsukahara<sup>1,2</sup>, N. Ono<sup>1</sup>, K. Suzuki<sup>3</sup>, A. Kato<sup>4</sup>, K. Ono<sup>2</sup>, T. Taniguchi<sup>1</sup>, S. Okamoto<sup>1,4</sup>

<sup>1</sup>Tohoku University, Sendai, Japan, <sup>2</sup>Osaka University, Osaka, Japan, <sup>3</sup>Monash University, Melbourne, Victoria, Australia, <sup>4</sup>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<sup>1</sup>, S. R. Bishop<sup>1</sup>, C. R. Riley<sup>1</sup>, J. D. Boissiere<sup>1</sup>, A. R. Marotta<sup>1</sup>, D. Bosomtwi<sup>1</sup>, S. Percival<sup>1</sup>, P. F. Weck<sup>1</sup>, E. Gokce-Polat<sup>2</sup>, J. Wang<sup>2</sup>, W. Echtenkamp<sup>2</sup>

<sup>1</sup>Sandia National Laboratories, Albuquerque, New Mexico, United States, <sup>2</sup>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<sub>1-y</sub>Co<sub>y</sub>)<sub>16</sub>N<sub>x</sub>**

Y. Asari<sup>1</sup>, T. Tabata<sup>1</sup>, S. Terada<sup>1</sup>, M. Enoki<sup>2</sup>, T. Ogawa<sup>3</sup>

<sup>1</sup>Hitachi, Hitachi, Ibaraki, Japan, <sup>2</sup>Shimane University, Matsue, Shimane, Japan, <sup>3</sup>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<sup>1,2</sup>, V. Zhukova<sup>1,3,4</sup>, P. A. Rodríguez Jiménez<sup>1,3</sup>, A. Zhukov<sup>3,4,5</sup>

<sup>1</sup>Department of Polymers and Advanced Materials,, University of the Basque Country, EHU,, San Sebastian, Spain, <sup>2</sup>Physics Department, Faculty of Science,, Sohag University, Sohag, Egypt, <sup>3</sup>Department of Applied Physics , EIG,, University of the Basque Country, EHU, San Sebastian, Spain, <sup>4</sup>EHU Quantum Center, University of the Basque Country, EHU, San Sebastian, Spain, <sup>5</sup>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<sup>1</sup>, T. Hojo<sup>1,2</sup>, Y. Ando<sup>1,2,3</sup>

<sup>1</sup>Advanced Spintronics Medical Engineering, Tohoku University, Sendai, Miyagi, Japan, <sup>2</sup>Department of Applied Physics, Tohoku University, Sendai, Japan, <sup>3</sup>Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan

02:36 PM-02:48 PM

**DE-02. Micro-patterned Fe<sub>65</sub>Co<sub>35</sub> 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<sup>1</sup>, E. Xiao<sup>1</sup>, C. Murakami<sup>2</sup>, T. Nakatani<sup>1</sup>, T. Hasegawa<sup>2</sup>, T. Tadano<sup>1</sup>, Y. Sakuraba<sup>1</sup>

<sup>1</sup>Research Center for Magnetic and Spintronic Materials, National Institute for Materials Science, Tsukuba, Ibaraki, Japan,

<sup>2</sup>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<sup>1</sup>, A. Arredondo-López<sup>1</sup>, M. Caseiro<sup>2</sup>, E. Yildiz<sup>1</sup>, I. Joumard<sup>1</sup>, N. Mollard<sup>1</sup>, S. Auffret<sup>1</sup>, J. Faure-Vincent<sup>1</sup>, G. Gaudin<sup>1</sup>, B. Diény<sup>1</sup>, C. Baraduc<sup>1</sup>, L. Ranno<sup>3</sup>, J. Kammerer<sup>4</sup>, C. Fermon<sup>2</sup>, A. Solignac<sup>2</sup>, M. Pannetier-Lecoeur<sup>2</sup>, H. Béa<sup>1,5</sup>, J. Fischer<sup>1</sup>

<sup>1</sup>University of Grenoble Alpes, CNRS, CEA, SPINTEC, Grenoble, France, <sup>2</sup>Université Paris-Saclay, CEA, CNRS, SPEC, Gif-sur-Yvette, France, <sup>3</sup>Institut Néel, Univ. Grenoble Alpes, CNRS, Grenoble, France, <sup>4</sup>ICube, University of Strasbourg, Strasbourg, France, <sup>5</sup>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<sup>1</sup>, K. Nohara<sup>1</sup>, K. Kobori<sup>2</sup>, H. Katsumura<sup>3</sup>, M. Lallart<sup>4,5</sup>, G. Sebald<sup>4,5</sup>, H. Masumoto<sup>6</sup>, S. Yabukami<sup>1</sup>

<sup>1</sup>Department of Electrical Engineering, Graduate School of Engineering, Tohoku University, Sendai, Japan, <sup>2</sup>Chuo Spring Co., Ltd., Miyoshi, Aichi, Japan, <sup>3</sup>Kachi Create LLC, Kobe, Hyogo, Japan, <sup>4</sup>Univ. Lyon, INSA-Lyon, Lyon, France, <sup>5</sup>ELyTMax IRL 3757, CNRS, University Lyon, INSA Lyon, Centrale Lyon, Université Claude Bernard Lyon, Tohoku University, Sendai, Japan, <sup>6</sup>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<sup>1,2</sup>

<sup>1</sup>Semiconductor Institute, Guangdong Academy of Science, Guangzhou, Guangdong, China, <sup>2</sup>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<sup>1</sup>, D. de Cos Elices<sup>3</sup>, E. Fernández<sup>2</sup>, N. Lete<sup>1</sup>, A. García-Arribas<sup>1,2</sup>

<sup>1</sup>Departamento de Electricidad y Electrónica, Universidad del País Vasco, UPV/EHU, Leioa, Vizcaya, Spain, <sup>2</sup>Basque Center for Materials, Applications and Nanostructures, BCMaterials., Leioa, Vizcaya, Spain, <sup>3</sup>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<sup>1</sup>, S. Imamori<sup>2</sup>, K. Fujiwara<sup>1</sup>

<sup>1</sup>Department of Electrical Engineering, Doshisha University, Kyotanabe, Japan, <sup>2</sup>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  $\alpha$ -Fe/Cr-Rich Dual-Phase Magnetic Composite**

J. Yuan<sup>1,2</sup>, Y. Wang<sup>1,2</sup>, H. Wang<sup>1,2</sup>, H. Zhou<sup>1,2</sup>, F. Xiao<sup>1,2</sup>, D. Dong<sup>3</sup>

<sup>1</sup>School of Electrical Engineering and Automation, Wuhan University, Wuhan, Hubei, China, <sup>2</sup>State Key Laboratory of Power Grid Environmental Protection, School of Electrical Engineering and Automation, Wuhan University, Wuhan, Hubei, China, <sup>3</sup>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<sup>1</sup>, C. Zhang<sup>1,2</sup>, T. Nakano<sup>1,3</sup>, Y. Wang<sup>1</sup>, M. Oogane<sup>1,4</sup>

<sup>1</sup>Tohoku Univ., Sendai, Japan, <sup>2</sup>CIES, Tohoku Univ., Sendai, Japan, <sup>3</sup>Green X-Tech, Tohoku Univ., Sendai, Japan, <sup>4</sup>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<sup>1</sup>, A. Bozhko<sup>2</sup>, V. Zhurkin<sup>2</sup>, A. Bogach<sup>2</sup>, A. Khanas<sup>3</sup>, S. Zarubin<sup>3</sup>, A. Zenkevich<sup>3</sup>, V. Glushkov<sup>2</sup>

<sup>1</sup>Unit of Agrate Brianza, CNR-IMM, Agrate Brianza (MB), Italy, <sup>2</sup>Prokhorov General Physics Institute, Russian Academy of Sciences, Moscow, Russian Federation, <sup>3</sup>Moscow Institute of Physics and Technology, Moscow, 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<sup>1</sup>, Y. Shibata<sup>1</sup>, M. Matsuzaka<sup>1</sup>, M. Wakamoto<sup>1</sup>, J. Uzuhashi<sup>5</sup>, T. Ohkubo<sup>5</sup>, H. Sukegawa<sup>2</sup>, G. Xiao<sup>3</sup>, H. Kaiju<sup>1,4</sup>

<sup>1</sup>Faculty of Science and Technology, Keio University, Yokohama, Kohoku-ku, Kanagawa, Japan, <sup>2</sup>Research Center for Magnetic and Spintronic Materials, National Institute for Materials Science, Tsukuba, Ibaraki, Japan, <sup>3</sup>Department of Physics, Brown University, Providence, Rhode Island, United States, <sup>4</sup>Center for Spintronics Research Network, Keio University, Yokohama, Kanagawa, Japan, <sup>5</sup>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<sup>1</sup>, S. Yoshioka<sup>1</sup>, S. Kamisaka<sup>1</sup>, M. Matsuzaka<sup>1</sup>, T. Yamamoto<sup>2</sup>, T. Nozaki<sup>2</sup>

<sup>1</sup>The Institute for Solid State Physics, The University of Tokyo, Kashiwa, Chiba, Japan, <sup>2</sup>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<sup>1,2</sup>, T. Scheike<sup>1</sup>, J. Uzuhashi<sup>1</sup>, H. Yasufuku<sup>1</sup>, T. Ohkubo<sup>1</sup>, Z. Wen<sup>1</sup>, S. Mitani<sup>1,2</sup>, H. Sukegawa<sup>1,2</sup>

<sup>1</sup>Spintronics, <sup>1</sup>National Institute of Materials Science, Tsukuba, Ibaraki, Japan, <sup>2</sup>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<sup>1,2</sup>, T. Hirai<sup>2</sup>, H. Suto<sup>2</sup>, K. Uchida<sup>1,2,3</sup>, Y. Sakuraba<sup>1,2</sup>

<sup>1</sup>University of Tsukuba, Tsukuba, Ibaraki, Japan, <sup>2</sup>National Institute for Materials Science (NIMS), Tsukuba, Ibaraki, Japan, <sup>3</sup>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<sup>1</sup>, F. Travagnin<sup>1</sup>, M. Cocconcelli<sup>1,4</sup>, B. Heinz<sup>2</sup>, A. Papp<sup>3</sup>, F. Kohl<sup>2</sup>, G. Csaba<sup>3</sup>, P. Pirro<sup>2</sup>, F. Maspero<sup>1</sup>, R. Bertacco<sup>1</sup>

<sup>1</sup>Politecnico di Milano, Milan, Italy, <sup>2</sup>Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau, Kaiserslautern, Germany,

<sup>3</sup>Pazmany Peter Catholic University, Budapest, Hungary, <sup>4</sup>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<sup>1,2</sup>, A. Angotti<sup>1</sup>, F. Maspero<sup>1</sup>, A. Cattoni<sup>1</sup>, R. Bertacco<sup>1</sup>

<sup>1</sup>Physics Department, Politecnico di Milano, Milan, Italy, <sup>2</sup>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<sup>1</sup>, J. Liu<sup>2</sup>, K. Buchanan<sup>1</sup>

<sup>1</sup>Physics, Colorado State University, Fort Collins, Colorado, United States, <sup>2</sup>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<sup>1</sup>, M. Hofschien<sup>1</sup>, F. Naunheimer<sup>1</sup>, V. Ahrens<sup>1</sup>, L. Maucha<sup>2</sup>, A. Papp<sup>2</sup>, G. Csaba<sup>2</sup>, M. Becherer<sup>1</sup>

<sup>1</sup>School of Computation, Information, and Technology, Technical University of Munich, Garching bei Muenchen, Bavaria, Germany,

<sup>2</sup>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<sup>1</sup>, A. Angotti<sup>2</sup>, F. Kohl<sup>3</sup>, A. Papp<sup>4</sup>, M. Wagner<sup>3</sup>, M. Cocconcelli<sup>2</sup>, A. Del Giacco<sup>2</sup>, F. Maspero<sup>2</sup>, B. Heinz<sup>3</sup>, G. Csaba<sup>4</sup>, R.

Bertacco<sup>2</sup>, M. Becherer<sup>1</sup>, P. Pirro<sup>3</sup>

<sup>1</sup>School of Computation, Information, and Technology, Technical University of Munich, Garching bei Muenchen, Bavaria, Germany,

<sup>2</sup>Department of Physics and Polifab, Politecnico di Milano, Milano, Italy, <sup>3</sup>Fachbereich Physik and Landesforschungszentrum

OPTIMAS, Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau, Kaiserslautern, Germany, <sup>4</sup>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<sup>3</sup>, V. Tyberkevych<sup>1</sup>, Y. Huang<sup>3</sup>, Z. Yan<sup>3</sup>, A. Pishehvar<sup>3</sup>, A. N. Slavin<sup>1</sup>, X. Zhang<sup>2,3</sup>

<sup>1</sup>Department of Physics, Oakland University, Rochester, Michigan, United States, <sup>2</sup>Department of Physics, Northeastern University, Boston, Massachusetts, United States, <sup>3</sup>Electrical and Computer Engineering, Northeastern University, Boston, Massachusetts, United States

**03:48 PM-04:15 PM**

Break

**04:15 PM-04:27 PM**

**DG-09. State Tomography of Itinerant Magnons**

J. Lim<sup>1,2</sup>, M. Kocyigit<sup>1,2</sup>, M. Song<sup>3</sup>, K. Kim<sup>4</sup>, Y. Li<sup>3</sup>, W. Pfaff<sup>1,5</sup>, A. Hoffmann<sup>1,2,5</sup>

<sup>1</sup>Materials Research Laboratory, University of Illinois Urbana-Champaign, Urbana, Illinois, United States, <sup>2</sup>Materials Science and Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, United States, <sup>3</sup>Materials Science Division, Argonne National Laboratory, Lemont, Illinois, United States, <sup>4</sup>Department of Physics, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), <sup>5</sup>Department of Physics, University of Illinois Urbana-Champaign, Urbana, Illinois, United States

**04:27 PM-04:39 PM**

**DG-10. Domain-Wall Racetrack As A Functional Element For Spin-Wave Phase Encoding**

U. Makartsou, O. Tartakivska, M. Krawczyk

Faculty of Physics and Astronomy, Adam Mickiewicz University, Poznan, Greater Poland Voivodeship, Poland

**04:39 PM-04:51 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<sup>2</sup>, S. Montoya<sup>1</sup>, E. Fullerton<sup>1</sup>, B. McMorran<sup>2</sup>

<sup>1</sup>*Center for Memory and Recording Research, University of California San Diego, San Diego, California, United States*, <sup>2</sup>*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<sup>1,2</sup>

<sup>1</sup>*University of Augsburg, Augsburg, Germany*, <sup>2</sup>*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<sup>1</sup>, R. Yanes<sup>2</sup>, L. Torres<sup>2</sup>, M. Abuin<sup>1</sup>, J. Grandal<sup>1</sup>, M. Sepehr<sup>1</sup>, G. Orero-Gómez<sup>6</sup>, R. Guedas<sup>3</sup>, L. Frnández-García<sup>4</sup>, R. Izquierdo<sup>1</sup>, M. C. Maicas<sup>1</sup>, M. Sanz<sup>1</sup>, J. Pedrós<sup>1</sup>, F. Calle<sup>1</sup>, S. Ruiz Gómez<sup>5</sup>, W. Khaliq<sup>5</sup>, M. Angel<sup>5</sup>, S. Velez<sup>6</sup>, M. Foerster<sup>5</sup>, L. Lopez-Diaz<sup>2</sup>, J. Prieto<sup>1</sup>

<sup>1</sup>*Instituto de Sistemas Optoelectrónicos y Microtecnología (ISOM), Universidad Politécnica de Madrid (UPM), Madrid, Madrid, Spain*,

<sup>2</sup>*Applied Physics Department, Universidad de Salamanca, Salamanca, Castilla y León, Spain*, <sup>3</sup>*Université Grenoble Alpes, CNRS, CEA, Grenoble INP, SPINTEC, Grenoble, France*, <sup>4</sup>*Departamento de Física de Materiales, Universidad Complutense de Madrid, Madrid, Madrid, Spain*, <sup>5</sup>*ALBA Synchrotron Light Facility, Barcelona, Spain*, <sup>6</sup>*Spintronics and Nanodevices Laboratory, Departamento de Física 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<sup>1</sup>, S. Wintz<sup>2,3</sup>, T. Srivastava<sup>4</sup>, N. Reyren<sup>1</sup>, D. Gouéré<sup>1</sup>, S. Manton<sup>1</sup>, A. El Kanj<sup>1</sup>, S. Finizio<sup>5</sup>, M. Weigand<sup>2</sup>, A. Mucchietto<sup>6</sup>, D. Grundler<sup>6,7</sup>, G. Schütz<sup>3</sup>, J. Kim<sup>4</sup>, V. Cros<sup>1</sup>, A. Anane<sup>1</sup>

<sup>1</sup>*Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France*, <sup>2</sup>*Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Berlin, Germany*, <sup>3</sup>*Max Planck Institute for Intelligent Systems, Stuttgart, Germany*, <sup>4</sup>*Centre de Nanosciences et de Nanotechnologies, CNRS, Université Paris-Saclay, Palaiseau, France*, <sup>5</sup>*Swiss Light Source, Paul Scherrer Institute, Villigen, Switzerland*, <sup>6</sup>*Laboratory of Nanoscale Magnetic Materials and Magnonics, Institute of Materials (IMX), École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland*, <sup>7</sup>*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. Hiram<sup>1</sup>, T. Kubota<sup>2</sup>, S. Ono<sup>3</sup>, M. Tsunoda<sup>5,6</sup>, M. Oogane<sup>1,4</sup>

<sup>1</sup>Department of Applied Physics, Graduate School of Engineering, Tohoku University, Sendai, Miyagi Prefecture, Japan, <sup>2</sup>Department of Advanced Spintronics Medical Engineering, Graduate School of Engineering, Tohoku University, Sendai, Miyagi Prefecture, Japan, <sup>3</sup>International Center for Synchrotron Radiation Innovation Smart, Tohoku University, Sendai, Miyagi Prefecture, Japan, <sup>4</sup>Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Miyagi Prefecture, Japan, <sup>5</sup>Department of Electronic Engineering, Graduate School of Engineering, Tohoku University, Sendai, Miyagi Prefecture, Japan, <sup>6</sup>Research Center for Green X-Tech, Tohoku University, Sendai, Miyagi Prefecture, Japan

### DP-02. Study on magnetic properties of (Fe<sub>0.72</sub>Ga<sub>0.28</sub>)<sub>100-x</sub>Al<sub>x</sub> films with various Al contents

F. Momota<sup>1</sup>, S. Ajia<sup>1</sup>, T. Miyazaki<sup>1</sup>, S. Muroga<sup>1</sup>, Y. Endo<sup>1,2</sup>

<sup>1</sup>Tohoku University, Sendai, Japan, <sup>2</sup>CSIS, Sendai, Japan

### DP-03. Magnetic Properties of Fe-6.5Si Soft Magnetic Composites via Micro Fe Based Fillers

J. Seo<sup>1</sup>, Y. In<sup>1</sup>, D. Lee<sup>1</sup>, S. Park<sup>1</sup>, D. Kim<sup>2</sup>, B. Lee<sup>3</sup>

<sup>1</sup>Physics, Hankuk University of Foreign Studies, Yongin-Si, Gyeonggi-Do, Korea (the Republic of), <sup>2</sup>Kolon industries, Seoul, Korea (the Democratic People's Republic of), <sup>3</sup>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<sup>1</sup>, J. E. Shoup<sup>2</sup>, D. Huang<sup>1</sup>, V. Kalappattil<sup>3</sup>, M. Wu<sup>3,1</sup>, D. B. Gopman<sup>2</sup>, N. X. Sun<sup>1</sup>

<sup>1</sup>Department of Electrical and Computer Engineering, Northeastern University, Boston, Massachusetts, United States, <sup>2</sup>Materials Science & Engineering Division, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, <sup>3</sup>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<sup>1,4</sup>, Y. Li<sup>2</sup>, G. Zhou<sup>2</sup>, Z. Lin<sup>2</sup>, Z. Hu<sup>1,4</sup>, J. Li<sup>1,4</sup>, Q. Yang<sup>3</sup>

<sup>1</sup>School of Vehicle and Mobility, Tsinghua University, Beijing, China, <sup>2</sup>State Key Laboratory of Intelligent Power Distribution Equipment and System, Hebei University of Technology, Tianjin, China, <sup>3</sup>Tianjin University of Technology, Tianjin, China, <sup>4</sup>State Key Laboratory of Intelligent Green Vehicle and Mobility, Tsinghua University, Beijing, China

### DP-08. A joint theoretical-experimental study of B2 phase Al<sub>50</sub>Cr<sub>25</sub>Co<sub>25</sub> alloy

H. Aihemaiti<sup>1,2</sup>, E. Dastanpour<sup>1,2</sup>, P. Svedlindh<sup>3</sup>, L. Vitos<sup>1,2,4</sup>

<sup>1</sup>Department of Materials Science and Engineering, KTH Royal Institute of Technology, Stockholm, Sweden, <sup>2</sup>Wallenberg Initiative Materials Science for Sustainability, Department of Materials Science and Engineering, KTH Royal Institute of Technology, Stockholm, Sweden, <sup>3</sup>Department of Materials Science and Engineering, Uppsala University, Uppsala, Sweden, <sup>4</sup>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<sup>1</sup>, Y. Ikeda<sup>2</sup>, M. Enoki<sup>3</sup>, T. Iriyama<sup>5</sup>, T. Omori<sup>4</sup>

<sup>1</sup>Corporate Research & Development Center, Daido Steel Co., Ltd., Nagoya, Aichi, Japan, <sup>2</sup>Institute for Materials Research, Tohoku University, Sendai, Miyagi, Japan, <sup>3</sup>Faculty of Materials for Energy, Shimane University, Matsue, Shimane, Japan, <sup>4</sup>Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan, <sup>5</sup>Corporate Research and Development Laboratory, Daido Steel Co., Ltd., Nagoya, Aichi, Japan

## **DP-10. Exploring the Synthesis, Phase Evolution, and Magnetic Characterization of the Fe<sub>9</sub>Co<sub>7</sub> 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<sup>1,2</sup>, H. He<sup>1,2</sup>, J. Hou<sup>1,2</sup>, H. Zhou<sup>1,2</sup>, F. Xiao<sup>1,2</sup>

<sup>1</sup>State Key Laboratory of Power Grid Environmental Protection, School of Electrical Engineering and Automation, Wuhan University, Wuhan, Hubei Province, China, <sup>2</sup>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<sup>2</sup>, T. Kumada<sup>1</sup>, t. shinohara<sup>3</sup>, R. Gautam<sup>2</sup>, H. Sepehri-Amin<sup>2</sup>

<sup>1</sup>Japan Atomic Energy Agency, Tokai, Japan, <sup>2</sup>National Institute for Materials Science, Tsukuba, Japan, <sup>3</sup>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<sup>1</sup>, M. Horvath<sup>2</sup>, I. Szenthe<sup>2</sup>, F. Gillemot<sup>2</sup>, L. Almasy<sup>2</sup>, A. Horvath<sup>2</sup>

<sup>1</sup>Iwate University, Morioka, Japan, <sup>2</sup>Centre for Energy Research, Budapest, Hungary

## **DP-14. Processing Optimization of Sendust Powder Cores for High-Frequency Power Electronics**

M. Nguyen<sup>1</sup>, T. Kiyota<sup>1</sup>, Y. Endo<sup>2</sup>, S. Yoshida<sup>2</sup>, S. Okamoto<sup>2</sup>

<sup>1</sup>Tamura Corporation, Sendai, Miyagi, Japan, <sup>2</sup>Tohoku University, Sendai, Miyagi, Japan

## **DP-15. Reduced Core Loss in FeSiB Amorphous Alloy Powder Cores by Controlling TEOS Content**

D. Lee<sup>1</sup>, J. Seo<sup>1</sup>, T. Kim<sup>1</sup>, S. Park<sup>1</sup>, D. Kim<sup>2</sup>, B. Lee<sup>3</sup>

<sup>1</sup>Physics, Hankuk University of Foreign Studies, Yongin-Si, Gyeonggi-Do, Korea (the Republic of), <sup>2</sup>Kolon industries, Seoul, Korea (the Republic of), <sup>3</sup>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<sup>1</sup>, S. Kim<sup>1</sup>, K. Yu<sup>1</sup>, S. Kim<sup>1</sup>, J. Park<sup>1</sup>, S. Eom<sup>1</sup>, K. Shin<sup>2</sup>, J. Choi<sup>1</sup>

<sup>1</sup>Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, S. Kim<sup>1</sup>, H. Ban<sup>1</sup>, K. Yu<sup>1</sup>, K. Shin<sup>2</sup>, J. Choi<sup>1</sup>

<sup>1</sup>Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>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<sup>2</sup>, S. Jeong<sup>1</sup>

<sup>1</sup>Gwangju University, Gangju Metropolitan City, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, T. Kim<sup>1</sup>, E. Kim<sup>1</sup>, M. Lim<sup>1</sup>, H. Ban<sup>2</sup>, J. Choi<sup>2</sup>, K. Shin<sup>3</sup>

<sup>1</sup>Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of), <sup>2</sup>Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>3</sup>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<sup>1</sup>, M. Kato<sup>2</sup>

<sup>1</sup>Nagoya Institute of Technology, Nagoya, Aichi, Japan, <sup>2</sup>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<sup>1</sup>, K. Kwak<sup>1</sup>, H. Shin<sup>2</sup>, K. Shin<sup>3</sup>, J. Choi<sup>1</sup>

<sup>1</sup>Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>Traction Motor Development Cell, Hyundai Mobis, Uiwang, Korea (the Republic of), <sup>3</sup>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<sup>1</sup>, Y. Lim<sup>1</sup>, J. Moon<sup>1</sup>, C. Lee<sup>1</sup>, W. Kim<sup>2</sup>

<sup>1</sup>Department of Next Generation Energy System Convergence, Gachon University, Seongnam-Si, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, D. Lee<sup>1</sup>, S. Park<sup>1</sup>, Y. In<sup>1</sup>, B. Lee<sup>2</sup>

<sup>1</sup>Physics, Hankuk University of Foreign Studies, Yongin-Si, Gyeonggi-Do, Korea (the Republic of), <sup>2</sup>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<sup>1,2</sup>, S. Kim<sup>2</sup>, G. Covic<sup>2</sup>

<sup>1</sup>The University of Suwon, Hwaseong, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, J. Kim<sup>1</sup>, S. Byun<sup>3</sup>, S. Noh<sup>2</sup>, H. Cho<sup>1</sup>

<sup>1</sup>Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>Korea Research Institute of Ships & Ocean Engineering, Daejeon, Korea (the Republic of), <sup>3</sup>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<sup>1</sup>, P. Yadav<sup>2</sup>, B. Son<sup>1</sup>, J. Heo<sup>1</sup>, S. Shin<sup>1</sup>, D. Ko<sup>3</sup>, R. Mishra<sup>2</sup>, K. Lee<sup>1</sup>

<sup>1</sup>Pukyong National University, Busan, Korea (the Republic of), <sup>2</sup>India Institute of Technology, Delhi, India, <sup>3</sup>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<sup>1</sup>, B. Brereton<sup>1,2,3</sup>, A. Yagmur<sup>1</sup>, S. Sasaki<sup>1</sup>, G. Burnell<sup>1</sup>, C. Marrows<sup>1</sup>

<sup>1</sup>*School of Physics and Astronomy, University of Leeds, Leeds, West Yorkshire, United Kingdom*, <sup>2</sup>*ISIS Neutron and Muon Source, Harwell Science and Innovation Campus, Chilton, Oxfordshire, United Kingdom*, <sup>3</sup>*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<sup>1</sup>, S. Shin<sup>2</sup>, B. Park<sup>2</sup>, H. Lee<sup>3</sup>

<sup>1</sup>*Applied Physics Program, Rice University, Houston, Texas, United States*, <sup>2</sup>*Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Daejeon, Korea (the Republic of)*, <sup>3</sup>*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<sub>3</sub>O<sub>4</sub>/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<sup>1</sup>, K. Yamanoi<sup>1</sup>, Y. Nozaki<sup>1,2</sup>

<sup>1</sup>*Department of Physics, Keio Univ., Yokohama, Japan*, <sup>2</sup>*Center for Spintronics Research Network, Keio Univ., Yokohama, Japan*

## DR-10. Chiral-induced Orbital Moment Selectivity in Chiral Semiconductors

I. Baek<sup>1,2</sup>, H. Lee<sup>1,2</sup>, M. Sastges<sup>3,5,4</sup>, Y. Mokrousov<sup>3,5</sup>, H. Lee<sup>1,2</sup>, D. Go<sup>6,3,5</sup>

<sup>1</sup>*Department of Physics, Pohang University of Science and Technology, Pohang-si, Korea (the Republic of)*, <sup>2</sup>*Center for Quantum Dynamics of Angular Momentum, Pohang-si, Korea (the Republic of)*, <sup>3</sup>*PGI-1, Forschungszentrum Jülich, Jülich, Germany*, <sup>4</sup>*Department of Physics, RWTH Aachen University, Aachen, Germany*, <sup>5</sup>*Institute of Physics, Johannes Gutenberg University Mainz, Mainz, Germany*, <sup>6</sup>*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<sup>1,2</sup>, S. Cheon<sup>1,2</sup>, I. Baek<sup>1,2</sup>, H. Lee<sup>1,2</sup>

<sup>1</sup>*Department of Physics, Pohang University of Science and Technology, Pohang, Korea (the Republic of)*, <sup>2</sup>*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<sup>1,2</sup>, M. Oogane<sup>1,3</sup>

<sup>1</sup>Graduate School of Engineering, Tohoku Univ., Sendai, Japan, <sup>2</sup>CIES, Tohoku Univ., Sendai, Japan, <sup>3</sup>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<sub>3</sub>Sn/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<sup>1</sup>, S. Sumi<sup>1</sup>, M. Mohammadi<sup>1</sup>, K. Tanabe<sup>1</sup>, Y. Nakatani<sup>2</sup>

<sup>1</sup>Toyota Technological Institute, Nagoya, Aichi, Japan, <sup>2</sup>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<sup>1</sup>, S. Guidobeth<sup>4</sup>, E. Saavedra<sup>2</sup>, J. Escribá<sup>2,3</sup>

<sup>1</sup>Departamento de Ciencias, Facultad de Artes Liberales, Universidad Adolfo Ibáñez, Santiago, Chile, <sup>2</sup>Departamento de Física, Universidad de Santiago de Chile, Santiago, Chile, <sup>3</sup>CEDENNA, Centro de Nanociencia y Nanotecnología, Santiago, Chile,

<sup>4</sup>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<sup>1</sup>, E. Rahmanovic<sup>1</sup>, S. Steentjes<sup>2</sup>

<sup>1</sup>FERI, University of Maribor, Maribor, Slovenia, <sup>2</sup>Institute of Electrical Machines (IEM), RWTH Aachen University, Aachen, Germany

## DS-04. Demonstration of bit-shifting in vertical domain wall motion memory

D. Jeong<sup>1</sup>, F. Ye<sup>1</sup>, Y. Shiota<sup>1</sup>, R. Hisatomi<sup>1,2</sup>, S. Karube<sup>1</sup>, S. Sugimoto<sup>2</sup>, S. Kasai<sup>2</sup>, T. Ono<sup>1,3</sup>

<sup>1</sup>Kyoto University, Kyoto, Japan, <sup>2</sup>National Institute for Materials Science, Tsukuba, Japan, <sup>3</sup>Tohoku University, Miyagi, Japan

## DS-05. Gradient Enhanced Physics Informed Neural Networks for Nonlinear Magnetostatic Analysis with Practical Coil Geometries

R. Shahbaz<sup>1</sup>, C. Zhang<sup>1</sup>, H. Fatima<sup>2</sup>, S. Babu<sup>1</sup>, A. Rehman<sup>3</sup>

<sup>1</sup>Electrical Engineering, State Key Laboratory of Smart Power Distribution Equipment and System, Hebei University of Technology, Tianjin, Hebei, China, <sup>2</sup>School of Physics, Department of Optical Information Science and Technology, School of Physics, Xidian

University, Xi'an, Shaanxi, China, <sup>3</sup>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<sup>1,2</sup>, C. Zhang<sup>1,2</sup>, R. Shahbaz<sup>1,2</sup>, R. Saqib Arshad<sup>1,2</sup>, J. Chi<sup>1,2</sup>

<sup>1</sup>Electrical Engineering, State Key Laboratory of Smart Power Distribution Equipment and System, Hebei University of Technology, Tianjin, Hebei, China, <sup>2</sup>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 Miscalc Sapphire Heterostructures**

J. Kim<sup>1</sup>, S. Kim<sup>1</sup>, J. Cho<sup>1</sup>, D. Kim<sup>1</sup>, J. Cho<sup>2</sup>, C. You<sup>1</sup>

<sup>1</sup>Physics and Chemistry, Daegu Gyeongbuk Institute of Science and Technology, Daegu, Gyeongsangbuk-do, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, A. Okada<sup>2</sup>, S. Choe<sup>1</sup>

<sup>1</sup>Physics and Astronomy, Seoul National University, Seoul, Korea (the Republic of), <sup>2</sup>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<sub>2</sub>Fe<sub>14</sub>B Nanoparticles: Coherent-to-Incoherent Transition, Gilbert Damping, and Thermal Effects**

J. Lisik<sup>1</sup>, A. Terko<sup>1</sup>, T. Schrefl<sup>2</sup>, E. Girt<sup>1</sup>

<sup>1</sup>Department of Physics, Simon Fraser University, Burnaby, British Columbia, Canada, <sup>2</sup>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<sup>1</sup>, J. Parella<sup>1</sup>, G. Boyce<sup>1</sup>, H. T. Nembach<sup>2</sup>, W. K. Peria<sup>2</sup>, M. Pufall<sup>2</sup>, W. Rippard<sup>2</sup>, M. Schneider<sup>2</sup>, D. B. Gopman<sup>1</sup>

<sup>1</sup>National Institute of Standards and Technology, Gaithersburg, Maryland, United States, <sup>2</sup>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<sup>1</sup>, C. Swindells<sup>2</sup>, B. Ravel<sup>3</sup>, G. Hu<sup>4</sup>, H. T. Nembach<sup>1</sup>

<sup>1</sup>Applied Physics Division, NIST, Boulder, Colorado, United States, <sup>2</sup>Department of Physics, University of Colorado, Boulder, Colorado, United States, <sup>3</sup>Materials and Measurement Science Division, NIST, Gaithersburg, Maryland, United States, <sup>4</sup>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*



## WOMEN IN MAGNETISM NETWORKING EVENT

Wednesday, November 4, 2026

05:30 PM-06:30 PM

Rainbow Suite & Patio

*Supported by*



## WOMEN IN MAGNETISM WORKSHOP

Wednesday, November 4, 2026

06:30 PM-08:00 PM

Rainbow Suite & Patio

*Supported by*



## 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<sup>1,2</sup>

<sup>1</sup>*Mechanical and Nuclear Engineering, Virginia Commonwealth University, Richmond, Virginia, United States*, <sup>2</sup>*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<sup>1</sup>, C. Duffee<sup>1</sup>, E. Raimondo<sup>2</sup>, N. Davila<sup>3</sup>, J. Katine<sup>3</sup>, G. Finocchio<sup>2</sup>, P. Khalili Amiri<sup>1</sup>

<sup>1</sup>Electrical and Computer Engineering, Northwestern University, Evanston, Illinois, United States, <sup>2</sup>Department of Mathematical and Computer Sciences, Physical Sciences and Earth Sciences, University of Messina, Messina, Italy, <sup>3</sup>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<sup>1,2</sup>, J. Chen<sup>1,2</sup>, Y. Zhao<sup>1,2</sup>, Y. Zhang<sup>1,2</sup>, H. Li<sup>1</sup>, Z. Xiao<sup>3</sup>, Q. Shao<sup>3</sup>, Y. Yao<sup>1,2</sup>, H. Zhang<sup>4</sup>, H. Liu<sup>4</sup>, S. Peng<sup>1,2</sup>, S. Li<sup>1,2</sup>, W. Zhao<sup>1,2</sup>

<sup>1</sup>School of Integrated Circuit Science and Engineering, Beihang University, Beijing, China, <sup>2</sup>National Key Lab of Spintronics, Institute of International Innovation, Beihang University, Hangzhou, China, <sup>3</sup>Department of Electronic and Computer Engineering, The Hong Kong University of Science and Technology, Hong Kong, China, <sup>4</sup>Truth Memory Corporation, Beijing, China

**11:21 AM-11:33 AM**

**EA-07. Physical Ising Machines with Asymmetric and Time-Delayed Interactions**

H. Zhang<sup>1,2</sup>, S. Gibeault<sup>3,2</sup>, M. Daniels<sup>4</sup>, P. Talatchian<sup>5</sup>, U. Ebels<sup>5</sup>, A. Madhavan<sup>4</sup>, M. Stiles<sup>4</sup>

<sup>1</sup>School of Engineering and Applied Science, The George Washington University, Washington, District of Columbia, United States, <sup>2</sup>Associate, Physical Measurement Laboratory, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, <sup>3</sup>Institute for Research in Electronics and Applied Physics, University of Maryland, College Park, Maryland, United States, <sup>4</sup>Physical Measurement Laboratory, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, <sup>5</sup>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<sup>1</sup>, S. Li<sup>1</sup>, A. Lee<sup>2</sup>, Z. Liu<sup>1</sup>, Z. Chen<sup>1</sup>, Y. Yao<sup>1</sup>, H. Zhang<sup>3</sup>, H. Liu<sup>3</sup>, S. Peng<sup>1</sup>, W. Zhao<sup>1</sup>

<sup>1</sup>Beihang University, Beijing, China, <sup>2</sup>InstonTech, Suzhou, China, <sup>3</sup>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<sup>1</sup>, H. Takeya<sup>1</sup>, X. Tang<sup>1</sup>, H. Sepehri-Amin<sup>1</sup>, K. Matsumoto<sup>2</sup>, H. Kitazawa<sup>1</sup>, K. Kamiya<sup>1</sup>, K. Natsume<sup>1</sup>, T. Numazawa<sup>1</sup>

<sup>1</sup>National Institute for Materials Science, Tsukuba, Ibaraki, Japan, <sup>2</sup>Kanazawa University, Kanazawa, Japan

**09:54 AM-10:06 AM**

### **EB-04. Impact of Structural Phase Transitions on the Magnetocaloric Effect**

A. Kosogor<sup>1,2,3</sup>, V. A. L'vov<sup>3</sup>

<sup>1</sup>University of Vienna, Vienna, Austria, <sup>2</sup>University for Continuing Education Krems, Krems, Austria, <sup>3</sup>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<sup>1</sup>, P. Lazpita<sup>1</sup>, J. Rodriguez Velamazán<sup>2</sup>, V. Chernenko<sup>1,3</sup>, D. Salazar<sup>3</sup>, J. Porro<sup>3,4</sup>

<sup>1</sup>University of the Basque Country, Bilbao, Spain, <sup>2</sup>Institut Laue Langevin, Grenoble, France, <sup>3</sup>BCMaterials, Bilbao, Spain, <sup>4</sup>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<sup>1</sup>, H. B. de Souza<sup>1</sup>, R. Almeida<sup>2</sup>, R. M. Pinto<sup>2</sup>, J. O. Silva<sup>2</sup>, G. Oliveira<sup>2</sup>, J. H. Belo<sup>2</sup>, J. Amaral<sup>1</sup>

<sup>1</sup>Department of Physics and CICECO, University of Aveiro, Aveiro, Aveiro, Portugal, <sup>2</sup>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. Fournée<sup>1</sup>, D. Sihom Kwekam<sup>1</sup>, G. Lengaigne<sup>1</sup>, P. Boulet<sup>1</sup>, S. Migot<sup>1</sup>, J. Ledieu<sup>1</sup>, J. Tobola<sup>2</sup>, S. Semsari Parapari<sup>3</sup>, S. Raznjevic<sup>3</sup>, S. Šturm<sup>3</sup>, L. Gallo<sup>4</sup>, S. Fabbri<sup>4</sup>, F. Cugini<sup>4,5</sup>, M. Solzi<sup>4,5</sup>, F. Albertini<sup>4</sup>

<sup>1</sup>Institut Jean Lamour, CNRS, Nancy, France, <sup>2</sup>AGH University, Krakow, Poland, <sup>3</sup>Jozef Stefan Institute, Ljubljana, Slovenia, <sup>4</sup>IMEM-CNR, Parma, Italy, <sup>5</sup>University of Parma, Parma, Italy

**11:33 AM-11:45 AM**

**EB-08. High-performance Thermomagnetic Power Generation for Low-grade Waste Heat Recovery based on Magnetocaloric Materials**

H. Chen, M. Liu, K. Qiao, H. Zhang

University of Science and Technology of Beijing, Beijing, China

**11:45 AM-11:57 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<sup>1</sup>, J. An<sup>1</sup>, S. Lee<sup>1</sup>, G. Kim<sup>2</sup>, K. Lee<sup>2</sup>, S. Kim<sup>1</sup>, T. Kim<sup>1</sup>, J. Lee<sup>1</sup>

<sup>1</sup>Korea Institute of Materials Science, Changwon, Korea (the Republic of), <sup>2</sup>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<sup>1,2</sup>, T. Kim<sup>1</sup>, K. Bae<sup>3</sup>, D. Kim<sup>3</sup>, K. Lee<sup>2</sup>, J. Lee<sup>1</sup>

<sup>1</sup>Department of Magnetic Materials, Korea Institute of Materials Science (KIMS), Changwon-si, Korea (the Republic of), <sup>2</sup>Department of Materials Science and Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan-si, Korea (the Republic of),

<sup>3</sup>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<sup>1</sup>, J. Wang<sup>1</sup>, Y. Varma<sup>2</sup>, C. Pan<sup>1</sup>, J. Cui<sup>1,2</sup>

<sup>1</sup>Ames National Laboratory, Ames, Iowa, United States, <sup>2</sup>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<sup>1</sup>, S. Kim<sup>1</sup>, T. Kim<sup>1</sup>, K. Bae<sup>2</sup>, D. Kim<sup>2</sup>, J. Lee<sup>1</sup>

<sup>1</sup>Korea Institute of Materials Science, Changwon, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, Y. Hirayama<sup>1</sup>, S. Sugimoto<sup>1,2</sup>

<sup>1</sup>National Institute of Advanced Industrial Science and Technology (AIST), Nagoya, Japan, <sup>2</sup>Graduate School of Engineering, Tohoku University, Sendai, Japan

**10:57 AM-11:09 AM**

**EC-12. Achieving uniaxial magnetic anisotropy in Ce<sub>2</sub>Fe<sub>17</sub>N<sub>3</sub> through Co- and Sm-substitution**

N. Pokhrel<sup>1</sup>, A. Raja<sup>2</sup>, B. Sales<sup>1</sup>, G. Samolyuk<sup>1</sup>, D. Schlagel<sup>2</sup>, O. Palasyuk<sup>2</sup>, A. Palasyuk<sup>2</sup>, D. Parker<sup>1</sup>

<sup>1</sup>Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, <sup>2</sup>Ames National Laboratory, Ames, Iowa, United States

**11:09 AM-11:21 AM**

**EC-13. Enhancing Coercivity of Bulk ThMn<sub>12</sub>-type SmFe<sub>10</sub>V<sub>2</sub> Magnets through Dy-Cu Grain Boundary Diffusion**

J. Park<sup>1</sup>, X. Zheng<sup>1,2</sup>

<sup>1</sup>Korea Institute of Materials Science, Changwon-si, Korea (the Republic of), <sup>2</sup>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<sup>1</sup>, Y. Zhang<sup>1</sup>, R. Itani<sup>2</sup>, D. Kassym<sup>3</sup>, Y. Kao<sup>4,5</sup>, J. Zang<sup>1</sup>

<sup>1</sup>*Physics and Astronomy, University of New Hampshire, Durham, New Hampshire, United States*, <sup>2</sup>*Department of Electrical and Computer Engineering, University of New Hampshire, Durham, New Hampshire, United States*, <sup>3</sup>*Department of Mathematics, Nazarbayev University, Astana, Kazakhstan*, <sup>4</sup>*Department of Physics, National Taiwan University, Taipei, Taiwan*, <sup>5</sup>*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<sup>1,2</sup>, D. Suess<sup>1</sup>, F. S. Slanovc<sup>2</sup>

<sup>1</sup>*Faculty of Physics, University of Vienna, Vienna, Austria*, <sup>2</sup>*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<sup>1</sup>, M. Rajib<sup>1</sup>, J. Atulasimha<sup>1,2</sup>

<sup>1</sup>*Mechanical & Nuclear Engineering, Virginia Commonwealth University, Richmond, Virginia, United States*, <sup>2</sup>*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  $\text{Mn}_2\text{PtSn}$  with Non-coplanar Spin Structure Revealed by Negative Anisotropic Magnetoresistance**

T. Tasaki<sup>2,1</sup>, T. Dohi<sup>2</sup>, K. Saijo<sup>2,1</sup>, S. Fukami<sup>2,1,3</sup>

<sup>1</sup>Department of Electronic Engineering, Tohoku Univ., Sendai, Japan, <sup>2</sup>Lab. for Nanoelectronics and Spintronics, RIEC, Tohoku Univ., Sendai, Japan, <sup>3</sup>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  $\text{CoRuCrGe}$**

J. Nag<sup>1,2</sup>, P. Sharma<sup>1</sup>, R. Roy Chowdhury<sup>3,1</sup>, S. Jan<sup>1</sup>, A. Alam<sup>2</sup>, K. G. Suresh<sup>2</sup>, M. Phan<sup>1,4</sup>, S. Witanachchi<sup>1</sup>, H. Srikanth<sup>1</sup>

<sup>1</sup>Physics, University of South Florida, Tampa, Florida, United States, <sup>2</sup>Physics, Indian Institute of Technology, Mumbai, Maharashtra, India, <sup>3</sup>Physics, Dream Institute of Technology, Maulana Abul Kalam Azad University of Technology, Kolkata, West Bengal, India,

<sup>4</sup>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<sup>1,2,3</sup>

<sup>1</sup>Quantum-Phase Electronics Center, The University of Tokyo, Tokyo, Japan, <sup>2</sup>Center for Emergent Matter Science, RIKEN, Wako, Japan,

<sup>3</sup>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  $\text{TNN-CH}_3\text{CN}$**

M. Pardo-Sainz<sup>1,2</sup>, Y. Kamiya<sup>6</sup>, T. Ono<sup>2</sup>, K. Kojima<sup>5</sup>, K. Ohishi<sup>4</sup>, J. Rodriguez Velamazan<sup>5</sup>, Y. Hosokoshi<sup>2</sup>, J. Campo<sup>1</sup>

<sup>1</sup>Spanish National Research Council (CSIC), Zaragoza, Spain, <sup>2</sup>Osaka Metropolitan University, Sakai, Japan, <sup>3</sup>TRIUMF, Vancouver, British Columbia, Canada, <sup>4</sup>CROSS, Tokai, Japan, <sup>5</sup>Institut Laue Langevin, Grenoble, France, <sup>6</sup>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  $\text{Ni}_{1-x}\text{Co}_x\text{S}_2$**

Y. Tao<sup>1</sup>, B. Das<sup>1</sup>, M. Maiti<sup>1</sup>, K. Heltemes<sup>1</sup>, C. Komar<sup>1</sup>, G. Rojas<sup>2</sup>, J. Garcia-Barriocanal<sup>2</sup>, T. Biro<sup>1</sup>, C. Leighton<sup>1</sup>

<sup>1</sup>Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, Minnesota, United States, <sup>2</sup>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  $\text{NiO}$  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  $Mn_{3-x}Fe_xSn$  alloys**

H. Haggai, 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<sup>1</sup>, Y. Gohda<sup>2</sup>

<sup>1</sup>*Department of Materials Science and Engineering, Institute of Science Tokyo, Yokohama, Kanagawa, Japan*, <sup>2</sup>*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<sup>1,2</sup>, C. Li<sup>1</sup>, E. Abogado<sup>1</sup>, Z. Xie<sup>3</sup>, S. Nguyen<sup>1</sup>, A. T. N'Diaye<sup>2</sup>, N. Tamura<sup>2</sup>, C. Klewe<sup>2</sup>, B. Achinuq<sup>2</sup>, R. Kukreja<sup>1</sup>

<sup>1</sup>*Materials Science and Engineering, University of California-Davis, Davis, California, United States*, <sup>2</sup>*Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, California, United States*, <sup>3</sup>*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<sup>1</sup>, J. Nag<sup>1,2</sup>, R. Roy Chowdhury<sup>3,1</sup>, S. Jan<sup>1</sup>, A. Alam<sup>2</sup>, K. G. Suresh<sup>2</sup>, M. Phan<sup>1,4</sup>, S. Witanachchi<sup>1</sup>, H. Srikanth<sup>1</sup>

<sup>1</sup>*Physics, University of South Florida, Tampa, Florida, United States*, <sup>2</sup>*Physics, Indian Institute of Technology, Mumbai, Maharashtra, India*, <sup>3</sup>*Physics, Dream Institute of Technology, Maulana Abul Kalam Azad University of Technology, Kolkata, West Bengal, India*, <sup>4</sup>*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<sup>1</sup>, T. Hattori<sup>1</sup>, T. Shinkai<sup>1</sup>, A. Yoshida<sup>1</sup>, K. Kawagita<sup>2</sup>, K. Yabushita<sup>2</sup>, T. Fukamachi<sup>2</sup>, K. Hayashi<sup>1</sup>, S. Iihama<sup>1</sup>, Y. Ishikawa<sup>2</sup>, T. Moriyama<sup>1</sup>

<sup>1</sup>*Materials Physics, Nagoya University, Nagoya, Aichi, Japan*, <sup>2</sup>*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<sub>2</sub>(110)/MgO/CoFeB junctions

Z. Wen<sup>1</sup>, M. Roy Chowdhury<sup>2,1</sup>, J. Okabayashi<sup>3</sup>, T. Ma<sup>1</sup>, S. Thota<sup>2</sup>, J. Uzuhashi<sup>1</sup>, T. Ohkubo<sup>1</sup>, S. Mitani<sup>1</sup>, H. Sukegawa<sup>1</sup>

<sup>1</sup>*National Institute for Materials Science (NIMS), Tsukuba, Japan*, <sup>2</sup>*Department of Physics, Indian Institute of Technology Guwahati, Guwahati, India*, <sup>3</sup>*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<sup>1,2</sup>, F. Zhou<sup>1,3</sup>, Y. Ma<sup>1</sup>, L. Song<sup>1,3</sup>, W. Wang<sup>3</sup>, G. Li<sup>1</sup>, Y. Lau<sup>1,2</sup>

<sup>1</sup>*Institute of Physics, Chinese Academy of Sciences, Beijing, China*, <sup>2</sup>*University Chinese Academy of Sciences, Beijing, China*, <sup>3</sup>*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<sub>1- $\delta$</sub> V<sub>2</sub>Te<sub>2</sub>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<sub>3</sub>Ge**

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  $S \geq 1$  Altermagnets**

D. Yamamoto<sup>1,2</sup>, M. Naka<sup>3</sup>

<sup>1</sup>Department of Physics, College of Humanities and Sciences, Nihon University, Setagaya, Tokyo, Japan, <sup>2</sup>RIKEN Center for Quantum Computing, Wako, Saitama, Japan, <sup>3</sup>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<sub>5</sub>Si<sub>3</sub> Thin Films**

C. Langton<sup>1</sup>, Z. Chen<sup>1</sup>, A. Caruana<sup>2</sup>, C. Kinane<sup>2</sup>, Y. Ijiri<sup>3</sup>, A. J. Grutter<sup>4</sup>, J. Borchers<sup>4</sup>, G. Yin<sup>1</sup>, K. Liu<sup>1</sup>

<sup>1</sup>Department of Physics, Georgetown University, Washington, District of Columbia, United States, <sup>2</sup>ISIS Neutron and Muon Source, Didcot, United Kingdom, <sup>3</sup>Department of Physics and Astronomy, Oberlin College, Oberlin, Ohio, United States, <sup>4</sup>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<sub>2</sub> Thin Film**

I. Nihal<sup>1</sup>, H. Schiff<sup>2</sup>, J. Vinson<sup>3</sup>, N. Dale<sup>6</sup>, S. A. Morley<sup>1</sup>, S. Choudhury<sup>4</sup>, B. Sharif<sup>4</sup>, E. Sullivan<sup>4</sup>, D. Lederman<sup>4</sup>, J. Romhanyi<sup>2</sup>, C. Klewe<sup>1</sup>, S. Roy<sup>1</sup>, E. Fullerton<sup>5</sup>

<sup>1</sup>Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, California, United States, <sup>2</sup>Department of Physics & Astronomy, University of California, Irvine, Irvine, California, United States, <sup>3</sup>National Institute of Standards and Technology, Gaithersburg, Maryland, United States, <sup>4</sup>Department of Physics, University of California, Santa Cruz, Santa Cruz, California, United States, <sup>5</sup>Department of Electrical and Computer Engineering, University of California, San Diego, San Diego, California, United States, <sup>6</sup>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<sub>2</sub> Engineered by Niobium Doping

A. Laraoui<sup>1</sup>, D. R. Lawati<sup>1</sup>, P. Karki<sup>2</sup>, J. Kumar<sup>1</sup>, K. Prasad<sup>2</sup>, M. A. Elekhitar<sup>1</sup>, K. Huang<sup>1</sup>, B. Tiwari<sup>1</sup>, S. Lamichhane<sup>1</sup>, R. Timalisina<sup>1</sup>, Z. Hubble<sup>2</sup>, A. E. Aregbesola<sup>2</sup>, J. Watt<sup>3</sup>, S. Liou<sup>1</sup>, E. Y. Tsymbal<sup>1</sup>, J. Wang<sup>2</sup>, K. Ambal<sup>2</sup>

<sup>1</sup>University of Nebraska-Lincoln, Lincoln, Nebraska, United States, <sup>2</sup>Wichita State University, Wichita, Kansas, United States, <sup>3</sup>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<sup>1</sup>, I. Kurniawan<sup>2</sup>, S. Sakamoto<sup>1,6</sup>, H. Kosaki<sup>1</sup>, E. Wei<sup>1</sup>, T. Hatajiri<sup>1</sup>, K. Ando<sup>3,4,5</sup>, K. Masuda<sup>2</sup>, S. Miwa<sup>1,7</sup>

<sup>1</sup>The Institute for Solid State Physics, The University of Tokyo, Chiba, Japan, <sup>2</sup>Research Center for Magnetic and Spintronics Materials, National Institute for Material Science, Tsukuba, Japan, <sup>3</sup>Department of Applied Physics and Physico-Informatics, Keio University, Yokohama, Japan, <sup>4</sup>Keio Institute of Pure and Applied Sciences, Keio University, Yokohama, Japan, <sup>5</sup>Center for Spintronics Research Network, Keio University, Yokohama, Japan, <sup>6</sup>Institute for Materials Research, Tohoku University, Sendai, Japan, <sup>7</sup>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<sup>1,2</sup>, T. Morita<sup>7,1</sup>, S. Biswas<sup>3,1</sup>, J. Uzuhashi<sup>1</sup>, T. Yagi<sup>5</sup>, Y. Yamashita<sup>5</sup>, V. K. Kushwaha<sup>1</sup>, F. Makino<sup>6,1</sup>, R. Modak<sup>1,2</sup>, Y. Sakuraba<sup>1,6</sup>, T. Ohkubo<sup>1</sup>, R. Guo<sup>2</sup>, B. Xu<sup>2</sup>, J. Shiomi<sup>2</sup>, D. Chiba<sup>7,4</sup>, K. Uchida<sup>1,2,6</sup>

<sup>1</sup>NIMS, Tsukuba, Japan, <sup>2</sup>The University of Tokyo, Kashiwa, Japan, <sup>3</sup>IITG, Guwahati, India, <sup>4</sup>SRIS, Tohoku University, Sendai, Japan, <sup>5</sup>AIST, Tsukuba, Japan, <sup>6</sup>University of Tsukuba, Tsukuba, Japan, <sup>7</sup>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<sup>1</sup>, A. Mondal<sup>2</sup>, R. Ohshima<sup>1,3</sup>, J. Puebla<sup>1,3</sup>, B. Jungfleisch<sup>2</sup>, M. Shiraishi<sup>1,3</sup>

<sup>1</sup>Kyoto University, Kyoto, Japan, <sup>2</sup>University of Delaware, Newark, Delaware, United States, <sup>3</sup>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<sup>1,3</sup>, C. Swindells<sup>1,4</sup>, J. J. Wisser<sup>5</sup>, M. Tanksalvala<sup>5</sup>, M. Kiechle<sup>1</sup>, G. Hu<sup>2</sup>, M. Pufall<sup>5</sup>, H. T. Nembach<sup>5</sup>

<sup>1</sup>Associate; Applied Physics Division, National Institute of Standards and Technology, Boulder, Colorado, United States, <sup>2</sup>IBM Research, Yorktown Heights, New York, United States, <sup>3</sup>Department of Physics, University of Colorado Boulder, Boulder, Colorado, United States, <sup>4</sup>Department of Electrical Engineering, University of Colorado Denver, Denver, Colorado, United States, <sup>5</sup>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<sub>3</sub>Ga<sub>4</sub> Revealed by Broadband FMR**

M. P. Whalen<sup>1</sup>, S. Nepal<sup>2</sup>, F. M. Abel<sup>3,4</sup>, M. E. Jamer<sup>3</sup>, J. Q. Xiao<sup>2</sup>

<sup>1</sup>Quantum Science and Engineering Program, University of Delaware, Newark, Delaware, United States, <sup>2</sup>Department of Physics and Astronomy, University of Delaware, Newark, Delaware, United States, <sup>3</sup>The Volgenau Department of Physics, United States Naval Academy, Annapolis, Maryland, United States, <sup>4</sup>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<sup>1,2</sup>, A. Angotti<sup>1</sup>, P. Florio<sup>1</sup>, N. Pellizzi<sup>1</sup>, F. Maspero<sup>1</sup>, R. Bertacco<sup>1</sup>

<sup>1</sup>Department of Physics, Politecnico di Milano, Milan, Italy, <sup>2</sup>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<sup>1,2</sup>, M. Song<sup>2,3</sup>, S. Kruhlov<sup>4</sup>, T. W. Cecil<sup>4</sup>, U. Welp<sup>2</sup>, R. Divan<sup>5</sup>, K. Kim<sup>3</sup>, V. Novosad<sup>2</sup>, A. Hoffmann<sup>1</sup>, Y. Li<sup>2</sup>

<sup>1</sup>Department of Materials Science and Engineering and Materials Research Laboratory, The Grainger College of Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, United States, <sup>2</sup>Materials Science Division, Argonne National Laboratory, Lemont, Illinois, United States, <sup>3</sup>Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), <sup>4</sup>High Energy Physics Division, Argonne National Laboratory, Lemont, Illinois, United States, <sup>5</sup>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<sup>1</sup>, S. Odawara<sup>2</sup>

<sup>1</sup>*Toyota Technological Institute, Nagoya, Japan*, <sup>2</sup>*Ohtama Co. Ltd., Kawasaki, Japan*

### EP-02. Improving electromagnetic properties of metal powder through surface modification

S. Park<sup>1</sup>, J. Seo<sup>1</sup>, D. Lee<sup>1</sup>, S. Lee<sup>2</sup>, B. Lee<sup>3</sup>

<sup>1</sup>*Physics, Hankuk University of Foreign Studies, Yongin-Si, Gyeonggi-Do, Korea (the Republic of)*, <sup>2</sup>*Samsung Electro-mechanics, Suwon, Korea (the Republic of)*, <sup>3</sup>*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<sup>1,2</sup>, P. A. Rodríguez Jiménez<sup>1</sup>, M. Salaheldeen<sup>1,2,3</sup>, V. Zhukova<sup>1,2,4</sup>, A. Zhukov<sup>5,2,4</sup>

<sup>1</sup>*Dept. Polymers and Advanced Materials: Physics, University of the Basque Country, EHU, San Sebastian, Spain*, <sup>2</sup>*Dept. Applied Physics, Escuela de Ingeniería de Gipuzkoa EIG, University of Basque Country, EHU, San Sebastian, Spain*, <sup>3</sup>*Phys. Dept., Faculty of Science, Sohag University, Sohag, Egypt*, <sup>4</sup>*EHU Quantum Center, University of the Basque Country, EHU, San Sebastian, Spain*, <sup>5</sup>*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<sup>1</sup>, S. Muroga<sup>1</sup>, Y. Endo<sup>1,2</sup>

<sup>1</sup>*Graduate School of Engineering, Tohoku University, Sendai, Japan*, <sup>2</sup>*Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan*

### EP-06. RF absorption in Ba<sub>2</sub>FeMoO<sub>6</sub> 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 Ba<sub>1-x</sub>M<sub>x</sub>O<sub>3-δ</sub> (M = Fe, Co, Sn, Ti) perovskites

A. Stanionyte<sup>1</sup>, L. Corredor<sup>2,3</sup>, A. Wolter<sup>4</sup>, G. Perversi<sup>5</sup>, A. Isaeva<sup>3,2,1</sup>

<sup>1</sup>*Physics, University of Amsterdam, Amsterdam, Netherlands*, <sup>2</sup>*Physics, Technical University of Dortmund, Dortmund, Germany*, <sup>3</sup>*Research Center "Future Energy Materials and Systems", Dortmund, Germany*, <sup>4</sup>*Leibniz IFW Dresden, Dresden, Germany*, <sup>5</sup>*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<sup>1</sup>, B. Stadler<sup>2,1</sup>

<sup>1</sup>Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, Minnesota, United States, <sup>2</sup>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<sup>1,2</sup>, H. Chen<sup>4,1,2</sup>, L. Ye<sup>1,2</sup>, H. Lin<sup>3</sup>, C. Chang<sup>4</sup>, T. Wu<sup>1,2</sup>

<sup>1</sup>Graduate School of Materials Science, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan, <sup>2</sup>Taiwan SPIN Research Center, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan, <sup>3</sup>Department of Neurosurgery, Show Chwan Memorial Hospital, Changhua, Taiwan, <sup>4</sup>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<sup>1</sup>, J. Calimbass<sup>1</sup>, J. Fujita<sup>1</sup>, M. Matsuo<sup>1</sup>, A. Ohta<sup>1</sup>, A. Haroon<sup>2</sup>

<sup>1</sup>Electrical and Computer Engineering, University of Hawaii Manoa, Honolulu, Hawaii, United States, <sup>2</sup>Hawaii Institute of Geophysics and Planetology, SOEST, University of Hawaii Manoa, Honolulu, Hawaii, United States

## **EQ-04. Controlling Dipolar Interactions in Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub> 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<sup>1</sup>, T. J. Taylor<sup>1</sup>, R. Detore<sup>1</sup>, C. J. Lewis<sup>6</sup>, S. S. Achanta<sup>7</sup>, M. Fernandes<sup>5</sup>, S. Sabaysachi<sup>2</sup>, W. Lohr<sup>1</sup>, L. Ma<sup>4</sup>, J. Atulasimha<sup>2</sup>, R. L. Hadimani<sup>3,1</sup>, C. L. Peterson<sup>1</sup>

<sup>1</sup>Biomedical Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, <sup>2</sup>Computer Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, <sup>3</sup>Mechanical and Nuclear Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, <sup>4</sup>School of Medicine Psychiatry, Virginia Commonwealth University, Richmond, Virginia, United States, <sup>5</sup>School of Medicine, Virginia Commonwealth University, Richmond, Virginia, United States, <sup>6</sup>School of Medicine, UMass Chan Medical School, Worcester, Massachusetts, United States, <sup>7</sup>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<sup>1</sup>, J. Lee<sup>1</sup>, H. Koo<sup>1</sup>, W. Park<sup>1</sup>, S. Kim<sup>2</sup>

<sup>1</sup>Electrical Engineering, Hanyang university, Seoul, Korea (the Democratic People's Republic of), <sup>2</sup>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<sup>1</sup>, Y. Chong<sup>2</sup>, W. Lee<sup>3</sup>, J. Han<sup>3</sup>, J. Oh<sup>3</sup>, H. Cho<sup>1,2</sup>

<sup>1</sup>Electric., Electron. & Comm. Engineering Education, Chungnam National University, Daejeon, Korea (the Republic of), <sup>2</sup>Department of Convergence System Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>3</sup>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<sup>2</sup>, Y. Li<sup>1</sup>, C. Chen<sup>2</sup>

<sup>1</sup>Department of Mechanical and Aerospace Engineering, National Defense University, Taoyuan, Taiwan, <sup>2</sup>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<sup>1</sup>, J. Yu<sup>1</sup>, S. Liu<sup>2</sup>, F. Zhao<sup>1</sup>, Y. Luo<sup>3</sup>

<sup>1</sup>Harbin Institute of Technology, Shenzhen, Shenzhen, China, <sup>2</sup>Center for Adaptive System Engineering, ShanghaiTech University, Shanghai, China, <sup>3</sup>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<sup>1</sup>, G. Tenasini<sup>2</sup>, Y. Zhang<sup>1</sup>

<sup>1</sup>Unionville High School, Markham, Ontario, Canada, <sup>2</sup>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<sup>1</sup>, S. Rodriguez Caballero<sup>1</sup>, K. Paz Gonzalez<sup>1</sup>, M. Molinares Ponce<sup>2</sup>, B. Rezaei<sup>3</sup>, C. Xu<sup>2</sup>, K. Wu<sup>3</sup>, J. Gomez-Pastora<sup>1</sup>

<sup>1</sup>Chemical Engineering, Texas Tech University, Lubbock, Texas, United States, <sup>2</sup>Industrial, Manufacturing & Systems Engineering, Texas Tech University, Lubbock, Texas, United States, <sup>3</sup>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<sup>1</sup>, W. Kitagawa<sup>1</sup>, M. Nakashima<sup>2</sup>, R. Masuda<sup>2</sup>

<sup>1</sup>Electrical and Mechanical Engineering, Nagoya Institute of Technology, Nagoya, Aichi, Japan, <sup>2</sup>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<sup>1</sup>, S. Mostufa<sup>1</sup>, H. Wang<sup>1</sup>, M. Shahriar<sup>2</sup>, M. Molinares Ponce<sup>2</sup>, C. Xu<sup>2</sup>, K. Wu<sup>3</sup>

<sup>1</sup>Department of Electrical and Computer Engineering, Texas Tech University, Lubbock, Texas, United States, <sup>2</sup>Department of Industrial, Manufacturing, and Systems Engineering, Texas Tech University, Lubbock, Texas, United States, <sup>3</sup>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<sup>1</sup>, H. Wang<sup>1</sup>, B. Rezaei<sup>1</sup>, M. Shahriar<sup>2</sup>, C. Xu<sup>2</sup>, K. Wu<sup>3</sup>

<sup>1</sup>Department of Electrical and Computer Engineering, Texas Tech University, Lubbock, Texas, United States, <sup>2</sup>Department of Industrial, Manufacturing, and Systems Engineering, Texas Tech University, Lubbock, Texas, United States, <sup>3</sup>University of South Florida, Tampa, Florida, United States

## ER-07. Electromagnetically Induced Endolymph Flow in the Vestibular System

Y. Lee<sup>2</sup>, J. Kim<sup>2</sup>, S. Jung<sup>2</sup>, H. Song<sup>1</sup>, S. Oh<sup>1</sup>, I. Na<sup>1</sup>, J. Jang<sup>1</sup>, K. Noh<sup>1</sup>, Y. Park<sup>1</sup>, Y. Lee<sup>1</sup>, P. Chanwook<sup>1</sup>, J. Hong<sup>1</sup>

<sup>1</sup>Control and Instrumentation Engineering, Korea University, Sejong, Korea (the Republic of), <sup>2</sup>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<sub>2</sub>O<sub>4</sub>@BaTiO<sub>3</sub> 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<sub>2</sub>O<sub>3</sub> Nanoparticles: Implications for Relaxation Behavior

N. Gunduz Akdogan<sup>1,2</sup>, B. Gungordu<sup>3</sup>, C. Bagci<sup>3</sup>, O. Akdogan<sup>3,2</sup>

<sup>1</sup>Piri Reis University, Istanbul, Turkey, <sup>2</sup>NANOTerial Technology, Istanbul, Turkey, <sup>3</sup>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<sup>1</sup>, S. B. Naranjo<sup>1</sup>, J. R. Marin<sup>1</sup>, Y. Mudryk<sup>2</sup>, A. Kumar<sup>2</sup>, R. Kuchi<sup>2</sup>, R. L. Hadimani<sup>1</sup>

<sup>1</sup>Virginia Commonwealth University, Richmond, Virginia, United States, <sup>2</sup>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

Graduate 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<sup>1,2</sup>, M. Elabbasi<sup>1,2</sup>, M. A. Garcia<sup>1</sup>, S. Dasari<sup>3</sup>, A. El-Gendy<sup>1</sup>

<sup>1</sup>Physics, University of Texas at El Paso, El Paso, Texas, United States, <sup>2</sup>Environmental Science and Engineering, University of Texas at El Paso, El Paso, Texas, United States, <sup>3</sup>Metallurgical, Materials and Biomedical Engineering, University of Texas at El Paso, El Paso, Texas, United States

## ER-15. Fe<sub>x</sub>C<sub>y</sub> Nanoparticles and their Potential for NP-mediated AMF Treatment in Liver HEP-G2 Cancerous Cell Line

H. V. Kapetan<sup>1,3</sup>, M. Elabbasi<sup>1,2</sup>, M. A. Garcia<sup>1</sup>, R. Morales<sup>1</sup>, S. Dasari<sup>4</sup>, A. El-Gendy<sup>1,2</sup>

<sup>1</sup>Physics, University of Texas at El Paso, El Paso, Texas, United States, <sup>2</sup>Environmental Science and Engineering, University of Texas at El Paso, El Paso, Texas, United States, <sup>3</sup>Biological Sciences, University of Texas at El Paso, El Paso, Texas, United States,

<sup>4</sup>Metallurgical, Materials and Biomedical Engineering, University of Texas at El Paso, El Paso, Texas, United States

## ER-16. Magnetically Driven Artificial Cilia Enable Metachronal Wave Motion for Efficient Biofilm Removal in Stents

H. Hanggai, L. Abelman

Delft University of Technology, Delft, Netherlands

## ZA: SPECIAL SESSION: THE MAGNETIC COMPASS OF LIFE

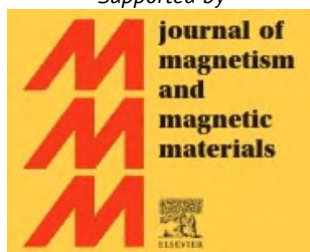
Chair(s): H. Josef Hug, University of Basel

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.<sup>1</sup>, N. M. Bruno<sup>2</sup>, A. Leary<sup>2</sup>, K. Chinnathambi<sup>3</sup>, R. D. Noebe<sup>2</sup>, K. Srinivasan<sup>1</sup>

<sup>1</sup>Electrical and Computer Engineering, Boise State University, Boise, Idaho, United States, <sup>2</sup>Materials and Structures Division, NASA Glenn Research Center, Cleveland, Ohio, United States, <sup>3</sup>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<sup>1,2</sup>

<sup>1</sup>Tyndall National Institute, Cork, Ireland, <sup>2</sup>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-04:27 PM

**FA-06. A Flip-Chip Approach Towards Characterizing the Broadband Magnetic Properties of Ferrite Composite Materials**

L. Afko, S. Oberdick, J. Booth

National Institute of Standards and Technology, Boulder, Colorado, United States

04:27 PM-05:03 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

05:03 PM-05:15 PM

**FA-08. Effect of magnetic viscosity on iron loss under triangular waves via precise iron loss measurements**

T. Taniguchi<sup>1</sup>, Y. Uehara<sup>2</sup>, S. Okamoto<sup>1,3,4</sup>

<sup>1</sup>Tohoku University, Sendai, Japan, <sup>2</sup>Magnetic Device Laboratory, Kawasaki, Japan, <sup>3</sup>National Institute for Materials Science, Tsukuba, Japan, <sup>4</sup>Center for Science and Innovation in Spintronics, Sendai, Japan

05:15 PM-05:27 PM

**FA-09. Spinwave linewidth measurement  $\Delta H_k$  of high-permittivity garnet ferrites**

M. Legay<sup>1</sup>, R. Lebourgeois<sup>2</sup>, R. Mansour<sup>2</sup>, D. Caban-Chastas<sup>1</sup>, V. Laur<sup>3</sup>

<sup>1</sup>Thales DMS, Elancourt, France, <sup>2</sup>Thales Research and Technology, Palaiseau, France, <sup>3</sup>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<sup>1,2,3</sup>, K. Tojo<sup>1</sup>, M. Elyasi<sup>2</sup>, S. Horibe<sup>1</sup>, K. Hoshi<sup>2</sup>, T. Makiuchi<sup>3</sup>, G. Bauer<sup>2,4,5</sup>, E. Saitoh<sup>1,3,2</sup>

<sup>1</sup>Department of Applied Physics, The University of Tokyo, Tokyo, Japan, <sup>2</sup>Advanced Institute for Materials Research, Tohoku University, Tokyo, Japan, <sup>3</sup>Center for Emergent Matter Science, RIKEN, Wako, Japan, <sup>4</sup>Institute for Materials Research, Tohoku University, Sendai, Japan, <sup>5</sup>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<sup>1</sup>, C. Kiehl<sup>2</sup>, J. Lim<sup>3</sup>, C. Abbott<sup>4</sup>, P. K. Pal<sup>1,3</sup>, A. Szymczak<sup>1,3</sup>, J. Li<sup>5</sup>, R. Divan<sup>6</sup>, C. L. Chang<sup>5</sup>, C. Phatak<sup>1</sup>, D. A. Bozhko<sup>4</sup>, A. Hoffmann<sup>3</sup>, V. Novosad<sup>1</sup>

<sup>1</sup>Materials Science Division, Argonne National Laboratory, Lemont, Illinois, United States, <sup>2</sup>Carthage College, Kenosha, Wisconsin, United States, <sup>3</sup>Materials Science Engineering, University of Illinois at Urbana Champaign, Urbana, Illinois, United States, <sup>4</sup>Department of Physics and Energy Science, University of Colorado Colorado Springs, Colorado Spring, Colorado, United States, <sup>5</sup>High Energy Physics, Argonne National Laboratory, Lemont, Illinois, United States, <sup>6</sup>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<sup>1,2</sup>, L. Körber<sup>1,3</sup>, J. Kim<sup>4</sup>, T. Devolder<sup>4</sup>, J. Mentink<sup>3</sup>, A. Kákay<sup>1</sup>, J. Fassbender<sup>1</sup>, K. Schultheiss<sup>1</sup>, H. Schultheiss<sup>1</sup>

<sup>1</sup>Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany, <sup>2</sup>TU Dresden, Dresden, Germany, <sup>3</sup>Radboud University, Nijmegen, Netherlands, <sup>4</sup>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<sup>1</sup>, S. Mayr<sup>2,3</sup>, M. J. Gross<sup>1</sup>, J. Klima<sup>4</sup>, J. Panda<sup>4</sup>, J. Krcma<sup>4</sup>, J. Holobradek<sup>4</sup>, K. Davidkova<sup>5</sup>, A. Chumak<sup>5</sup>, R. V. Verba<sup>6</sup>, P. Pirro<sup>7</sup>, M. Weigand<sup>8</sup>, S. Finizio<sup>2</sup>, M. Lindner<sup>9</sup>, C. Dubs<sup>9</sup>, Q. Wang<sup>10</sup>, S. Wintz<sup>8</sup>, C. A. Ross<sup>1</sup>, M. Urbánek<sup>4</sup>

<sup>1</sup>MIT, Cambridge, Massachusetts, United States, <sup>2</sup>Paul Scherrer Institut, Villigen, Switzerland, <sup>3</sup>ETH, Zurich, Switzerland, <sup>4</sup>CEITEC, Brno, Czechia, <sup>5</sup>University of Vienna, Vienna, Austria, <sup>6</sup>Institute of Magnetism, Kyiv, Ukraine, <sup>7</sup>Fachbereich Physik and Landesforschungszentrum OPTIMAS, Kaiserslautern, Germany, <sup>8</sup>Helmholtz-Zentrum-Berlin für Materialien und Energie, Berlin, Germany, <sup>9</sup>INNOVENT e.V. Technologieentwicklung, Jena, Germany, <sup>10</sup>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<sup>1,2</sup>, M. Müller<sup>3</sup>, R. Ohshima<sup>1</sup>, Y. Ando<sup>4</sup>, M. Althammer<sup>3</sup>, H. Huebl<sup>3</sup>, M. Shiraishi<sup>1</sup>

<sup>1</sup>Department of Electronic Science and Engineering, Kyoto University, Kyoto, Japan, <sup>2</sup>Imperial College London, London, United Kingdom, <sup>3</sup>Walther-Meißner-Institute, Munich, Germany, <sup>4</sup>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<sup>1,2</sup>, R. Ramesh<sup>1,2</sup>

<sup>1</sup>Department of Materials Science and Engineering, University of California Berkeley, Berkeley, California, United States, <sup>2</sup>Department of Physics, University of California Berkeley, Berkeley, California, United States

**05:15 PM-05:27 PM**

**FB-09. Coupling polar order to magnon transport in a two-dimensional multiferroic**

D. P. Dubey, S. K. Mallik, L. Pandey, S. P. Dash

*Microtechnology and Nanoscience, Chalmers University of Technology, Gothenburg, Gothenburg, Sweden*

**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<sup>1</sup>, K. Wu<sup>2</sup>

<sup>1</sup>*Department of Electrical and Computer Engineering, Texas Tech University, Lubbock, Texas, United States*, <sup>2</sup>*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<sup>1,3</sup>, M. Im<sup>2</sup>, K. Lee<sup>1,3</sup>

<sup>1</sup>*Materials Science and Engineering, Ulsan National Institute of Science and Technology, Ulsan, Ulju-Gun, Korea (the Republic of)*,

<sup>2</sup>*Center for X-ray Optics, Lawrence Berkeley National Laboratory, Berkeley, California, United States*, <sup>3</sup>*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<sup>1</sup>, A. Murray<sup>1</sup>, L. Russo<sup>1</sup>, C. Allen<sup>1</sup>, C. S. Jorgensen<sup>1</sup>, L. Quigley<sup>1</sup>, C. C. Buchanan<sup>1</sup>, M. Winklhofer<sup>2</sup>, S. G. Brady<sup>3</sup>, L. Packer<sup>4</sup>

<sup>1</sup>*University of Tennessee, Knoxville, Tennessee, United States*, <sup>2</sup>*University of Oldenburg, Oldenburg, Germany*, <sup>3</sup>*Smithsonian, Washington DC, District of Columbia, United States*, <sup>4</sup>*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<sup>2</sup>, A. Iino<sup>2</sup>, M. Fushimi<sup>1</sup>, M. Sekino<sup>2</sup>

<sup>1</sup>*Faculty of Science and Technology Department of Applied Physics and Physico-Informatics, Keio University, Tokyo, Japan*,

<sup>2</sup>*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<sup>1</sup>, S. Wolff<sup>2</sup>

<sup>1</sup>Physical Metallurgy and Fire Performance Branch, Naval Surface Warfare Center, Carderock Division, Bethesda, Maryland, United States, <sup>2</sup>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<sup>1</sup>, L. Bertel Bermejo<sup>1</sup>, J. Abarca<sup>2</sup>, C. González-Fernández<sup>2</sup>, G. Díaz-Sainz<sup>2</sup>, J. Gomez-Pastora<sup>1</sup>

<sup>1</sup>Chemical Engineering, Texas Tech University, Lubbock, Texas, United States, <sup>2</sup>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-14. Magnetic Hyperfine Parameters as Indicators of Transformation Pathways in Iron Oxides: Natural Evolution Sequences from Archaeological Materials**

Y. Uhm<sup>1</sup>, H. Choi<sup>1</sup>, S. Jang<sup>1,2</sup>

<sup>1</sup>HANARO Utilization Division, Korea Atomic Energy Research Institute (KAERI), Daejeon, Korea (the Republic of), <sup>2</sup>Department of Cultural Heritage Conservation Science, Kongju National University, Gongju, Korea (the Republic of)

05:15 PM-05:27 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<sup>1,2</sup>

<sup>1</sup>Kyoto University, Uji, Japan, <sup>2</sup>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<sup>1,2</sup>

<sup>1</sup>Associate, Applied Physics Division, NIST, Boulder, Colorado, United States, <sup>2</sup>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<sup>1,2</sup>, D. Giuliano<sup>3</sup>, V. Kateel<sup>3</sup>, V. Nguyen<sup>3</sup>, J. Chatterjee<sup>3</sup>, A. Palomino<sup>3</sup>, R. Carpenter<sup>3</sup>, S. Rao<sup>3</sup>, J. Incorvia<sup>1,2</sup>

<sup>1</sup>Chandra Family Department of Electrical and Computer Engineering, University of Texas at Austin, Austin, Texas, United States,

<sup>2</sup>Microelectronics Research Center, University of Texas at Austin, Austin, Texas, United States, <sup>3</sup>imec, Leuven, Belgium

03:24 PM-03:36 PM

**FD-04. Robotic Navigation Using Spin-Wave-Based Neuromorphic Hardware**

J. Zohar<sup>1</sup>, D. Pinna<sup>1</sup>, G. van der Laan<sup>2</sup>, T. Hesjedal<sup>1</sup>, C. Safeer<sup>1</sup>

<sup>1</sup>Department of Physics, University of Oxford, Oxford, United Kingdom, <sup>2</sup>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  $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$  Oscillatory Neural Networks**

H. Chhabra<sup>1,2</sup>, T. Banerjee<sup>1,2</sup>

<sup>1</sup>University of Groningen, Groningen Cognitive System and Materials Centre, Groningen, Groningen, Netherlands, <sup>2</sup>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<sup>1</sup>, S. Iihama<sup>1</sup>, K. Hayashi<sup>1</sup>, S. Mizukami<sup>2,3</sup>, N. Yoshinaga<sup>4</sup>, T. Moriyama<sup>1</sup>

<sup>1</sup>Department of Materials Physics, Nagoya University, Nagoya, Aichi, Japan, <sup>2</sup>WPI Advanced Institute for Materials Research (AIMR), Tohoku University, Sendai, Miyagi, Japan, <sup>3</sup>Center for Science and Innovation in Spintronics (CSIS), Tohoku University, Sendai, Miyagi, Japan, <sup>4</sup>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<sup>1</sup>, M. Alam<sup>1</sup>, M. Rajib<sup>1</sup>, J. Atulasimha<sup>1,2</sup>

<sup>1</sup>Mechanical & Nuclear Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, <sup>2</sup>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<sup>1</sup>, C. Hsu<sup>2</sup>, Y. Lin<sup>2</sup>, W. Chang<sup>3</sup>, Y. Tseng<sup>2</sup>

<sup>1</sup>Industry Academia Innovation School, National Yang Ming Chiao Tung University, Hsinchu, None Selected, Taiwan, <sup>2</sup>Materials Science and Engineering, National Yang Ming Chiao Tung University, Hsinchu, None Selected, Taiwan, <sup>3</sup>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<sup>1</sup>, B. H. Chiang<sup>1</sup>, D. Sels<sup>2,3</sup>, F. Morone<sup>1</sup>, A. D. Kent<sup>1</sup>

<sup>1</sup>Physics, New York University, New York, New York, United States, <sup>2</sup>Physics, Boston University, Boston, Massachusetts, United States, <sup>3</sup>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<sup>1,2</sup>, M. Azhar<sup>4</sup>, T. Hesjedal<sup>5</sup>, M. Garst<sup>3</sup>, C. Pfleiderer<sup>2</sup>

<sup>1</sup>European Spallation Source, Lund, Sweden, <sup>2</sup>Technical University of Munich, Munich, Germany, <sup>3</sup>Karlsruhe Institute of Technology, Karlsruhe, Germany, <sup>4</sup>University of Duisburg-Essen, Duisburg, Germany, <sup>5</sup>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<sup>1,3</sup>, Y. Kousaka<sup>3</sup>, M. Mito<sup>4</sup>, K. Ohishi<sup>5</sup>, K. Kojima<sup>6</sup>, V. Laliena<sup>2</sup>, J. Campo<sup>1</sup>

<sup>1</sup>Spanish National Research Council (CSIC), Zaragoza, Spain, <sup>2</sup>University of Zaragoza, Zaragoza, Spain, <sup>3</sup>Osaka Metropolitan University, Sakai, Japan, <sup>4</sup>Kyushu Institute of Technology, Kita-Kyushu, Japan, <sup>5</sup>CROSS, Tokai, Japan, <sup>6</sup>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<sup>1</sup>, T. Groot<sup>1</sup>, M. Tardieux<sup>1</sup>, L. Corredor<sup>2,3</sup>, I. Aguilera<sup>1</sup>, A. Isaeva<sup>2,3,1</sup>

<sup>1</sup>Physics, University of Amsterdam, Amsterdam, Netherlands, <sup>2</sup>Physics, Technical University of Dortmund, Dortmund, Germany, <sup>3</sup>Research Center “Future Energy Materials and Systems”, Dortmund, Germany

03:12 PM-03:24 PM

**FE-05. YNiSn<sub>2</sub>: A candidate Dirac semimetal**

G. Silva Freitas<sup>1</sup>, C. Kaufmann Ribeiro<sup>1</sup>, F. Carneiro<sup>3</sup>, K. R. Pakuszewski<sup>5</sup>, E. Bittar<sup>2</sup>, H. B. Pizzi<sup>4</sup>, I. Kopel<sup>4</sup>, M. Piva<sup>4</sup>, R. C. Santos<sup>4</sup>, F. Oliveira<sup>4</sup>, F. Ronning<sup>1</sup>, J. Thompson<sup>1</sup>, C. Adriano<sup>5</sup>, P. Pagliuso<sup>4</sup>

<sup>1</sup>Los Alamos National Laboratory, Los Alamos, New Mexico, United States, <sup>2</sup>Physics, CBPF, Rio de Janeiro, RJ, Brazil, <sup>3</sup>Diamond Light Source, Didcot, United Kingdom, <sup>4</sup>Physics, University of Campinas, Campinas, Brazil, <sup>5</sup>Physics, University of Sherbrooke, Sherbrooke, Quebec, Canada

03:24 PM-03:36 PM

**FE-06. Physical properties and correlated electron behavior of Kagome metal Cu<sub>3</sub>V<sub>2</sub>Sb<sub>4</sub>**

M. Liu<sup>1</sup>, C. Liu<sup>1</sup>, H. Wu<sup>2,1</sup>, X. Zhou<sup>1</sup>, D. Liu<sup>1</sup>, S. Li<sup>1</sup>, Z. Shi<sup>1</sup>

<sup>1</sup>Southeast University, Nanjing, Jiangsu, China, <sup>2</sup>Jiangsu University of Science and Technology, Zhenjiang, China

03:36 PM-03:48 PM

**FE-07. Experimental investigation of the third-order nonlinear Hall effect in ferromagnetic Weyl semimetal Co<sub>3</sub>Sn<sub>2</sub>S<sub>2</sub> thin films**

S. Kazami<sup>1</sup>, J. Han<sup>1</sup>, T. Uchimura<sup>1</sup>, K. Fujiwara<sup>2</sup>, K. Nihei<sup>1</sup>, S. Kanai<sup>1</sup>, A. Tsukazaki<sup>3,1</sup>, S. Fukami<sup>1</sup>

<sup>1</sup>Tohoku University, Sendai, Japan, <sup>2</sup>Rikkyo University, Tokyo, Japan, <sup>3</sup>The University of Tokyo, Tokyo, Japan

03:48 PM-04:15 PM

Break

04:15 PM-04:27 PM

**FE-08. Symmetry-Controlled Electronic Structure in Altermagnetic MnTe**

J. Lee

Physics, Kyungpook National University, Daegu, Korea (the Republic of)

04:27 PM-04:39 PM

**FE-09. Avoiding the Spin Glass: Random Singlet Physics in the Disordered S = 1/2 Pyrochlore Antiferromagnet NaCdCu<sub>2</sub>F<sub>7</sub>**

A. Kancko<sup>1</sup>, H. Sakai<sup>2</sup>, C. A. Correa<sup>3</sup>, P. Proschke<sup>1</sup>, J. Prokleška<sup>1</sup>, T. Haidamak<sup>1</sup>, M. Uhlarz<sup>4</sup>, A. Berlie<sup>5</sup>, Y. Tokunaga<sup>2</sup>, R. H. Colman<sup>1</sup>

<sup>1</sup>Department of Condensed Matter Physics, Faculty of Mathematics and Physics, Charles University in Prague, Prague, Czechia, <sup>2</sup>Advanced Science Research Center, Japan Atomic Energy Agency, Tokai, Ibaraki, Japan, <sup>3</sup>Institute of Physics, Czech Academy of Sciences, Prague, Czechia, <sup>4</sup>Hochfeld-Magnetlabor Dresden (HLD-EMFL), Helmholtz-Zentrum Dresden-Rossendorf (HZDR), Dresden - Rossendorf, Germany, <sup>5</sup>ISIS Neutron and Muon Source, Rutherford Appleton Laboratory, Science and Technology Facilities Council, Chilton, Oxfordshire, United Kingdom

**04:39 PM-04:51 PM**

**FE-10. Harmonic helimagnetism and competing multi-Q orders in the inversion broken Weyl semimetal GdAlSi**

R. Nakano<sup>1</sup>, R. Yamada<sup>1</sup>, J. Bouaziz<sup>2</sup>, M. Colling<sup>3,4</sup>, M. Gen<sup>5,6</sup>, K. Shoriki<sup>1</sup>, Y. Okamura<sup>1</sup>, A. Kikkawa<sup>5</sup>, R. Misawa<sup>1</sup>, P. R. Baral<sup>1</sup>, S. Kitou<sup>7</sup>, Y. Nakamura<sup>8</sup>, H. Ohsumi<sup>9</sup>, Y. Tanaka<sup>9</sup>, H. Sagayama<sup>10</sup>, H. Nakao<sup>10</sup>, Y. Ishihara<sup>1</sup>, K. Gautam<sup>5</sup>, O. Fabelo<sup>11</sup>, Y. Taguchi<sup>5</sup>, Y. Takahashi<sup>1,5</sup>, M. Tokunaga<sup>5,6</sup>, T. Arima<sup>5,7</sup>, Y. Tokura<sup>1,5,12</sup>, R. Arita<sup>5,13</sup>, J. Masell<sup>4,5</sup>, S. Hayami<sup>14</sup>, M. Hirschberger<sup>1,5</sup>

<sup>1</sup>Department of Applied Physics and Quantum-Phase Electronics Center, The University of Tokyo, Tokyo, Japan, <sup>2</sup>Research Center for Advanced Science and Technology, The University of Tokyo, Tokyo, Japan, <sup>3</sup>Department of Materials Science and Engineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway, <sup>4</sup>Institute of Theoretical Solid State Physics, Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, <sup>5</sup>RIKEN Center for Emergent Matter Science (CEMS), Saitama, Japan, <sup>6</sup>Institute for Solid State Physics, The University of Tokyo, Kashiwa, Japan, <sup>7</sup>Department of Advanced Materials Science, The University of Tokyo, Tokyo, Japan, <sup>8</sup>Japan Synchrotron Radiation Research Institute (JASRI), Hyogo, Japan, <sup>9</sup>RIKEN SPring-8 Center, Hyogo, Japan, <sup>10</sup>Institute of Materials Structure Science, High Energy Accelerator Research Organization, Ibaraki, Japan, <sup>11</sup>Institut Laue-Langevin, Grenoble, France, <sup>12</sup>Tokyo College, The University of Tokyo, Tokyo, Japan, <sup>13</sup>Department of Physics, Tokyo, Japan, <sup>14</sup>Graduate School of Science, Hokkaido University, Sapporo, Japan

**04:51 PM-05:03 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

**05:03 PM-05:15 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<sub>3</sub>GeTe<sub>2</sub> and Fe<sub>3</sub>GaTe<sub>2</sub>: comparison of current along c-axis and ab-plane**

C. Chang<sup>1</sup>, N. Hai<sup>1</sup>, R. Jain<sup>1</sup>, L. Tsai<sup>1</sup>, R. Jhang<sup>1</sup>, R. Sankar<sup>1</sup>, J. Liang<sup>2</sup>, S. Lee<sup>1</sup>

<sup>1</sup>Institute of Physics, Academia Sinica, Taipei, Nangang, Taiwan, <sup>2</sup>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<sup>1,2</sup>, M. Tanaka<sup>1,2</sup>, R. Nakane<sup>1,3</sup>

<sup>1</sup>Dept. of Electrical Eng. and Information Systems, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, <sup>2</sup>Center for Spintronics Research Network (CSRN), The University of Tokyo, Bunkyo-ku, Tokyo, Japan, <sup>3</sup>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<sup>1</sup>, P. Zhang<sup>1</sup>, V. Lomakin<sup>2</sup>, J. Hong<sup>3</sup>

<sup>1</sup>HBUT, Wuhan, China, <sup>2</sup>UCSD, La Jolla, California, United States, <sup>3</sup>UC Berkeley, Berkeley, California, United States

**02:36 PM-02:48 PM**

**FF-04. Preserving Interfacial Integrity in  $\text{Fe}_3\text{GaTe}_2$  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<sup>1</sup>, S. Karube<sup>2</sup>, Y. Shiota<sup>2</sup>, Y. Inaoka<sup>2</sup>, T. Ono<sup>2</sup>, S. Emori<sup>1</sup>

<sup>1</sup>Physics, Virginia Tech, Blacksburg, Virginia, United States, <sup>2</sup>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-08. Below-Gap Second-Harmonic Generation as a Geometric Probe of Néel Order in PT-Symmetric Antiferromagnetic Insulators**

E. Xue, S. Ahmad

*Physics, University of Alabama at Birmingham, Birmingham, Alabama, United States*

**04:27 PM-04:39 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*

**04:39 PM-04:51 PM**

**FF-10. Antiferromagnetic domain wall in ferrimagnetic bilayers controlled by magnetic spin Hall effect.**

H. Kim<sup>1</sup>, S. Ko<sup>1</sup>, D. Han<sup>2</sup>, J. Kang<sup>2,3</sup>, P. Cao Van<sup>4</sup>, W. Choi<sup>5</sup>, S. Kim<sup>5</sup>, J. Jeong<sup>4</sup>, B. Park<sup>2</sup>, A. M. Park<sup>1</sup>, K. Kim<sup>6</sup>, K. Kim<sup>1,7</sup>

<sup>1</sup>Department of Physics, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), <sup>2</sup>Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of),

<sup>3</sup>Department of Electrical and Computer Engineering, Northwestern University, Evanston, Illinois, United States, <sup>4</sup>Department of Materials Science and Engineering, Chungnam National University, Daejeon, Korea (the Republic of), <sup>5</sup>Department of Physics, University of Ulsan, Ulsan, Korea (the Republic of), <sup>6</sup>Department of Physics, Yonsei University, Seoul, Korea (the Republic of),

<sup>7</sup>Graduate School of Quantum Science and Technology, Daejeon, Korea (the Republic of)

**04:51 PM-05:03 PM**

**FF-11. Room temperature control of axial and basal antiferromagnetic anisotropies using strain**

H. Jani

*University of Oxford, Oxford, United Kingdom*

05:03 PM-05:15 PM

**FF-12. Suppressing Gilbert damping in  $L1_0$ -FePt thin films by nanostructural control for sub-terahertz spin dynamics**

P. D. Bentley<sup>1,2</sup>, Y. Sasaki<sup>1</sup>, I. Suzuki<sup>1</sup>, S. Isogami<sup>1</sup>, Y. K. Takahashi<sup>1</sup>, H. Suto<sup>1</sup>

<sup>1</sup>National Institute for Materials Science, Tsukuba, Japan, <sup>2</sup>National Institute for Quantum Science and Technology, Kizugawa, Japan

05:15 PM-05:27 PM

**FF-13. Twisting Light, Steering Spins: Gold Nanoparticle Magnetization via Inverse Faraday Effect and Orbital Angular Momentum**

X. Yang<sup>1</sup>, C. Hareau<sup>2</sup>, M. Mivelle<sup>2</sup>

<sup>1</sup>Dalian University of Technology, Dalian, China, <sup>2</sup>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<sup>1,2</sup>

<sup>1</sup>Department of Physics and Materials Science, University of Luxembourg, Luxembourg, Luxembourg, <sup>2</sup>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<sup>1,2</sup>, D. T. Pozsár<sup>1</sup>, A. Garica Fuente<sup>3</sup>, J. Ferrer<sup>3</sup>, J. Fabian<sup>4</sup>, L. Oroszlány<sup>1</sup>

<sup>1</sup>Department of Physics of Complex Systems, Eötvös Loránd University, Budapest, Budapest, Hungary, <sup>2</sup>Nanostructures, HUN-REN Centre for Energy Research, Budapest, Budapest, Hungary, <sup>3</sup>University of Oviedo, Oviedo, Spain, <sup>4</sup>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

Max-Planck-Institute of Microstructure Physics, Halle, Germany

03:00 PM-03:12 PM

**FG-04. jaxFMM: Fast and Accurate Stray Field Evaluation for FEM Micromagnetics**

R. Kraft<sup>1,2</sup>, F. Bruckner<sup>1</sup>, D. Suess<sup>1</sup>, C. Abert<sup>1</sup>

<sup>1</sup>Physics of Functional Materials, University of Vienna, Vienna, Austria, <sup>2</sup>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<sup>1,2</sup>, E. Santos<sup>1,2,3</sup>

<sup>1</sup>*Institute for Condensed Matter Physics and Complex Systems, The University of Edinburgh, Edinburgh, Midlothian, United Kingdom,*

<sup>2</sup>*Higgs Centre for Theoretical Physics, The University of Edinburgh, Edinburgh, Midlothian, United Kingdom,* <sup>3</sup>*Donostia International Physics Center, San Sebastián, Spain*

**03:36 PM-03:48 PM**

**FG-07. Micromagnetic Framework for Cluster Magnetic Multipoles**

M. Yoo<sup>1</sup>, R. Winkler<sup>2,3</sup>, A. Hoffmann<sup>1</sup>

<sup>1</sup>*Department of Materials Science and Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, United States,*

<sup>2</sup>*Department of Physics, Northern Illinois University, DeKalb, Illinois, United States,* <sup>3</sup>*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<sub>2</sub>-based Ferroelectric/Magnetic Heterostructures**

G. Gandini<sup>1</sup>, J. Hertel<sup>4</sup>, A. Di Pietro<sup>2</sup>, A. Magni<sup>2</sup>, M. Madami<sup>3</sup>, S. Tacchi<sup>3</sup>, A. Pezo<sup>5</sup>, M. Cantoni<sup>1</sup>, C. A. Durner<sup>4</sup>, M. Lederer<sup>4</sup>, B. Lilienthal-Uhlig<sup>4</sup>, M. Kuepferling<sup>2</sup>, R. Arras<sup>6</sup>, A. Manchon<sup>7</sup>, C. Rinaldi<sup>1</sup>

<sup>1</sup>*Physics, Politecnico di Milano, Milano, Lombardia, Como, Italy,* <sup>2</sup>*INRIM, Torino, Piemonte, Italy,* <sup>3</sup>*Università di Perugia, Perugia, Umbria, Italy,* <sup>4</sup>*Fraunhofer IPMS, Dresden, Saxony, Germany,* <sup>5</sup>*Université Paris-Saclay, Palaiseau, Essonne, France,* <sup>6</sup>*Université de Toulouse, Toulouse, Haute-Garonne, France,* <sup>7</sup>*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<sub>3</sub>Sn<sub>2</sub>**

D. Le<sup>1</sup>, J. Kelley<sup>1</sup>, G. M. Pantano<sup>1</sup>, E. Thareja<sup>1</sup>, C. Brennan-Rich<sup>2</sup>, M. Phan<sup>1,3</sup>, Y. Mokrousov<sup>4,5</sup>, C. Marrows<sup>2</sup>, J. D. Gayles<sup>1</sup>

<sup>1</sup>*Department of Physics, University of South Florida, Tampa, Florida, United States,* <sup>2</sup>*University of Leeds, Leeds, United Kingdom,*

<sup>3</sup>*VinUniversity, Hanoi, Viet Nam,* <sup>4</sup>*Forschungszentrum Jülich and JARA, Jülich, Germany,* <sup>5</sup>*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<sup>1,2</sup>, C. J. Reichhardt<sup>1</sup>, C. Reichhardt<sup>1</sup>, A. B. Saxena<sup>1</sup>

<sup>1</sup>*Theoretical Division, Los Alamos National Laboratory, Los Alamos, New Mexico, United States,* <sup>2</sup>*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<sup>1,3</sup>, A. Lászlóffy<sup>2,4</sup>, L. Szunyogh<sup>1,3</sup>

<sup>1</sup>Department of Theoretical Physics, Budapest University of Technology and Economics, Budapest, Hungary, <sup>2</sup>Wigner Research Centre for Physics, Budapest, Hungary, <sup>3</sup>HUN-REN-BME Condensed Matter Research Group, Budapest, Hungary, <sup>4</sup>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<sub>2</sub>Te<sub>3</sub> 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<sup>1</sup>, K. Horiuchi<sup>3</sup>, M. Mizuno<sup>1</sup>, R. Ando<sup>2</sup>, R. Uesugi<sup>1</sup>, T. Komine<sup>1</sup>

<sup>1</sup>Ibaraki University, Hitachi, Japan, <sup>2</sup>Ibaraki College, Hitachinaka, Japan, <sup>3</sup>Tohoku University, Sendai, Japan

## FP-05. Magnetic Anisotropy and Hyperthermic Efficiency of Polyethylene-grafted Fe<sub>3</sub>O<sub>4</sub> 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/ $\beta$ -Bi<sub>2</sub>Pd Using X-ray Spectroscopies

Y. Chin<sup>1</sup>, Y. Ku<sup>2</sup>, D. Qu<sup>3</sup>, S. Huang<sup>2</sup>, H. Lin<sup>4</sup>, C. Chen<sup>4</sup>

<sup>1</sup>National Chung Cheng University, Chiayi, Taiwan, <sup>2</sup>National Taiwan University, Taipei, Taiwan, <sup>3</sup>Center for Condensed Matter Sciences, National Taiwan University, Taipei, Taiwan, <sup>4</sup>National Synchrotron Radiation Research Center, Hsinchu, Taiwan

## FP-07. Diameter dependence of magnetic properties and structure in cylindrical CoPt alloy nanowires

R. Kawana<sup>1</sup>, D. Oshima<sup>2</sup>, M. Saito<sup>3</sup>, T. Homma<sup>3</sup>, T. Kato<sup>2</sup>, T. Ono<sup>4</sup>, M. Shima<sup>1</sup>, K. Yamada<sup>1</sup>

<sup>1</sup>Gifu University, Gifu, Japan, <sup>2</sup>Nagoya University, Nagoya, Japan, <sup>3</sup>Waseda University, Tokyo, Japan, <sup>4</sup>Kyoto University, Uji, Japan

## FP-08. Engineering of Magnetic Anisotropy in Antiferromagnetic NiO(111) Epitaxial Thin Films

M. Slezak<sup>1</sup>, A. Kwiatkowski<sup>1</sup>, M. Zajac<sup>2</sup>, M. Szpytma<sup>2</sup>, A. Koziol Rachwal<sup>1</sup>, T. Slezak<sup>1</sup>

<sup>1</sup>AGH University of Krakow, Krakow, Poland, <sup>2</sup>National Synchrotron Radiation Centre SOLARIS, Jagiellonian University, Krakow, Poland

## FP-09. Engineering of FeB/SiB Multilayers for the Neutron Polarizers

S. K. Jena

*Institute of Physics, Chemistry and Biology, Linköping University, Linköping, Sweden*

## FP-10. Magnetic Surface Spin Disorder and Shape Anisotropy in High-Aspect Ratio Ni Nanorods

S. Jan<sup>1</sup>, A. I. Ojo<sup>1</sup>, N. Schulz<sup>2</sup>, J. Nag<sup>1</sup>, P. Sharma<sup>1</sup>, E. Jaberolansar<sup>1</sup>, R. Yoosuf<sup>3</sup>, H. Khurshid<sup>4</sup>, D. A. Arena<sup>1</sup>, H. Srikanth<sup>1</sup>

<sup>1</sup>Physics, University of South Florida, Tampa, Florida, United States, <sup>2</sup>Naval Surface Warfare Center, Panama City, Florida, United States, <sup>3</sup>Applied Physics and Astronomy, University of Sharjah, Sharjah, United Arab Emirates, <sup>4</sup>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 SiO<sub>2</sub> Thin Films for Magneto-Optical Systems: Ring-Structure Evolution and Multi-Scale Validation

K. Lee<sup>1</sup>, K. Lee<sup>2</sup>, W. Lee<sup>1</sup>

<sup>1</sup>*School of Chemical and Biological Engineering, Seoul National University, Seoul, Korea (the Republic of)*, <sup>2</sup>*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<sub>3</sub> (001) substrate.

J. Moreau<sup>1</sup>, G. Herrera<sup>1</sup>, A. Reyes<sup>1</sup>, O. Boisson<sup>1</sup>, F. Tournus<sup>1</sup>, S. Gonzales<sup>2</sup>, I. Canero-Infante<sup>2</sup>, M. Bugnet<sup>3</sup>, P. Ohresser<sup>4</sup>, E. Otero<sup>4</sup>, A. Rogalev<sup>5</sup>, F. Wilhelm<sup>5</sup>, D. Le Roy<sup>1</sup>, V. Dupuis<sup>1</sup>

<sup>1</sup>*Université Lyon 1, CNRS, Institut Lumière Matière, UMR5306, Villeurbanne, France*, <sup>2</sup>*Université Lyon 1, CNRS, INSA Lyon, Ecole Centrale de Lyon, CPE Lyon, INL, UMR5270, Villeurbanne, France*, <sup>3</sup>*CNRS, INSA Lyon, Université Claude Bernard Lyon 1, MATEIS-UMR 5510, Villeurbanne, France*, <sup>4</sup>*Synchrotron SOLEIL, Saint-Aubin, France*, <sup>5</sup>*European Synchrotron Radiation Facility (ESRF), Grenoble, France*

## FP-14. Pulsed Laser Deposited HoCo<sub>2</sub> 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<sup>1</sup>, F. Efe<sup>1</sup>, F. Bakhshizadeh<sup>1</sup>, D. Alharbi<sup>1,2</sup>, M. Guy<sup>1</sup>, M. Davis<sup>1</sup>

<sup>1</sup>*Physics, Morgan State University, Baltimore, Maryland, United States*, <sup>2</sup>*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<sub>2</sub>XGe (X=Ni, Co, Mo)

G. Buhrow<sup>1</sup>, G. Reyes<sup>1</sup>, M. Neupane<sup>2</sup>, A. Goswami<sup>2</sup>, P. Shand<sup>1</sup>, P. Kharel<sup>2</sup>, P. Lukashev<sup>1</sup>

<sup>1</sup>*Physics, University of Northern Iowa, Cedar Falls, Iowa, United States*, <sup>2</sup>*South Dakota State University, Brookings, South Dakota, United States*

## FQ-02. Compositional Tuning of the Structural, Magnetic, and Mechanical Properties of Co<sub>2-x</sub>FeV<sub>x</sub>Al system.

M. Minu<sup>1</sup>, T. Grier<sup>2</sup>, M. Garrett<sup>2</sup>, A. Hauser<sup>1</sup>, P. LeClair<sup>1</sup>

<sup>1</sup>*Department of Physics and Astronomy, The University of Alabama, Tuscaloosa, Alabama, United States*, <sup>2</sup>*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<sub>2</sub> 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<sup>1</sup>, J. Sýkora<sup>2</sup>, M. Hubert<sup>2</sup>, J. Marquez Chavez<sup>1</sup>, M. Veis<sup>2</sup>, C. A. Ross<sup>1</sup>

<sup>1</sup>Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States,

<sup>2</sup>Faculty of Mathematics and Physics, Charles University, Prague, Czechia

## **FQ-06. B-Site Fe Substitution–Induced Modification of Structural Phase Transitions in BaZr<sub>0.05</sub>Ti<sub>0.95</sub>O<sub>3</sub>: A Neutron Diffraction Study**

M. Kumari<sup>2,1</sup>, R. Chatterjee<sup>1</sup>

<sup>1</sup>Physics, IIT Delhi, New Delhi, India, <sup>2</sup>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<sub>0.5</sub>Na<sub>0.5</sub>TiO<sub>3</sub> (BNT)**

M. Kumari<sup>1,2</sup>

<sup>1</sup>HDD, Western Digital Technologies(WD), SAN JOSE, CALIFORNIA, India, <sup>2</sup>Physics, IIT Delhi, Delhi, Delhi, India

## **FQ-08. Synthesis, Magnetism, and Magnetoelectric Properties of Polar Cluster Cobaltite Ba<sub>6</sub>La<sub>2</sub>Co<sub>4</sub>O<sub>15</sub>**

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<sub>5</sub>**

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<sub>4</sub>**

T. Dang<sup>4</sup>, T. Hoang<sup>4</sup>, V. Chlan<sup>3</sup>, T. Kmjec<sup>3</sup>, M. Rozprym<sup>3</sup>, J. Kohout<sup>3</sup>, G. Rymski<sup>5</sup>, D. Le<sup>1</sup>, T. Nguyen<sup>2</sup>, M. Phan<sup>2,1</sup>

<sup>1</sup>University of South Florida, Tampa, Florida, United States, <sup>2</sup>VinUniversity, Hanoi, Viet Nam, <sup>3</sup>Charles University, Prague, Czechia,

<sup>4</sup>Duy Tan University, Danang, Viet Nam, <sup>5</sup>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 Ca<sub>2</sub>CoSi<sub>2</sub>O<sub>7</sub>**

M. Akaki<sup>1</sup>, T. Kihara<sup>2</sup>, M. Kimata<sup>3</sup>

<sup>1</sup>Core Facility Center, ARC, Kobe university, Kobe, Japan, <sup>2</sup>Research Institute for Interdisciplinary Science, Okayama university, Okayama, Japan, <sup>3</sup>Japan Atomic Energy Agency, Ibaraki, Japan

## **FQ-12. Magnetocrystalline Anisotropy and Control of Fe<sup>3+</sup> Spin in Ferroelectric Oxides via Local Structural Distortions: from First-Principles**

H. Ahmad<sup>1</sup>, B. Barker<sup>2</sup>, S. M. Griffin<sup>3</sup>, E. Nowadnick<sup>4</sup>

<sup>1</sup>Physics, University of California Merced, Merced, California, United States, <sup>2</sup>Florida Polytechnic University, Lakeland, Florida, United States, <sup>3</sup>Lawrence Berkeley National Laboratory, Berkeley, California, United States, <sup>4</sup>Chemical and Materials Engineering, University of California Merced, Merced, California, United States

## FQ-13. Ferroelectric-Like behavior at the Surface of $\text{Cr}_2\text{O}_3$

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 $\text{Lu}_{1-x}\text{Sr}_x\text{FeO}_3$ ceramics

S. Pittala<sup>1,2</sup>, P. K U<sup>2</sup>, P. Anil Kumar<sup>2</sup>

<sup>1</sup>Physics, Dayananda Sagar University, Bengaluru, Karnataka, India, <sup>2</sup>Physics, Indian Institute of Science, Bengaluru, Karnataka, India

## FQ-15. Polarization Reversal and Strain-Driven Magnetic Phase Transitions Enable Reversible Topological Switching in $\text{CrGeTe}_3/\text{In}_2\text{Se}_3$

W. Li, S. Dong, J. Zhang

*Physics, Southeast University, Nanjing, Jiangsu Province, China*

## FQ-16. Interface Effects on Spin Glass Behavior in $\text{Ni}/\text{MoS}_2$

A. J. Stollenwerk<sup>1</sup>, H. Harms<sup>1</sup>, S. Diallo<sup>1</sup>, A. Hager<sup>1</sup>, E. Ahmetasevic<sup>1</sup>, T. Porter<sup>1</sup>, C. J. Cunningham<sup>1</sup>, C. Hemesath<sup>1</sup>, P. Lukashev<sup>1</sup>, T. Kidd<sup>1</sup>, B. Wei<sup>2</sup>, L. Zhou<sup>3</sup>, P. Shand<sup>1</sup>

<sup>1</sup>Physics, University of Northern Iowa, Cedar Falls, Iowa, United States, <sup>2</sup>Ames National Laboratory, Ames, Iowa, United States,

<sup>3</sup>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 $\text{Fe}_2(\text{Mn,Cr})\text{Al}$ Heusler Alloys

A. Ashok<sup>1,2</sup>, N. Bhagat<sup>1</sup>

<sup>1</sup>Applied Sciences, Symbiosis Institute of Technology, Symbiosis International (Deemed) University, Pune, Maharashtra, India,

<sup>2</sup>Physics, Savitribai Phule Pune University, Pune, Maharashtra, India

## FR-02. NMR- $T_1$ study of $1/3$ -magnetization plateau in equilateral-triangular-lattice antiferromagnet $\text{Ba}_2\text{La}_2\text{CoTe}_2\text{O}_{12}$

T. Goto<sup>1</sup>, K. Kobayashi<sup>1</sup>, S. Daimon<sup>2</sup>, T. Ohtsuki<sup>1</sup>, H. Tanaka<sup>3</sup>, N. Kurita<sup>3</sup>, M. Watanabe<sup>3</sup>, Y. Kojima<sup>3</sup>, T. Sasaki<sup>4</sup>

<sup>1</sup>Physics Division, Sophia University, Chiyodaku, Tokyo, Japan, <sup>2</sup>Quantum Materials and Applications Research Center, National Institutes for Quantum Science and Technology (QST), Tokyo, Japan, <sup>3</sup>Institute of Science Tokyo, Tokyo, Japan, <sup>4</sup>Institute for Material Research, Tohoku University, Sendai, Japan

## FR-03. Anomalous Hysteresis and Magnetic Phase Transitions in the Heusler Compound $\text{Fe}_{1.3}\text{Mn}_{1.7}\text{Si}$

M. Hiroi, I. Shigeta

*Department of Physics and Astronomy, Kagoshima University, Kagoshima, Japan*

## FR-04. Inverse Magnetocaloric Effect and Magnetic Phase Diagram of $\text{Fe}_{3-x}\text{Mn}_x\text{Si}$ 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 $\text{Ba}_3\text{MgRu}_2\text{O}_9$

U. Iida, T. Tai, D. Sekita, Y. Yasui

*Physics, Meiji University, Kawasaki, Kanagawa, Japan*

## FR-06. Synthesis of Niobium-doped Sodium Cobalt Tellurate ( $\text{Na}_2\text{Co}_2\text{Te}_{1-x}\text{Nb}_x\text{O}_6$ ) Towards Zero-magnetic Field Stable Quantum Spin Liquids

S. C. Mills<sup>1</sup>, N. Hill<sup>2</sup>, E. Patterson<sup>1</sup>, M. Staruch<sup>1</sup>

<sup>1</sup>Materials Science and Technology Division, US Naval Research Laboratory, Washington, District of Columbia, United States,

<sup>2</sup>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 Magnetocrystalline 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 $\text{Pt}_3\text{Fe}$ antiferromagnet

S. Kobayashi<sup>1</sup>, A. Nakano<sup>1</sup>, Y. Ikeda<sup>2</sup>, M. Fujita<sup>2</sup>, K. Hiroi<sup>3</sup>, T. Kumada<sup>3</sup>, R. Motokawa<sup>3</sup>

<sup>1</sup>Iwate University, Morioka, Japan, <sup>2</sup>Tohoku University, Sendai, Japan, <sup>3</sup>JAEA, Tokai, Japan

## FR-11. Electronic and Magnetic Properties of Random Fcc $\text{Ce}_3\text{Al}$ Alloy

R. Wu<sup>1</sup>, Y. Li<sup>2</sup>, E. Mijit<sup>3</sup>, Y. Amakai<sup>1</sup>

<sup>1</sup>Muroran Institute of Technology, Muroran, Japan, <sup>2</sup>Inner Mongolia Normal University, Hohhot, China, <sup>3</sup>Sorbonne Université, Paris, France

## FR-12. Magnetic behavior and Phase Diagram of $\text{Ba}_3\text{Zn}_{1-x}\text{Ni}_x\text{Ru}_2\text{O}_9$ ( $0 \leq x \leq 1$ )

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<sup>1</sup>, J. Strečka<sup>1</sup>, M. Rouxel<sup>2</sup>, A. Honecker<sup>2</sup>

<sup>1</sup>Pavol Jozef Safarik University, Kosice, Slovakia, <sup>2</sup>LPTM, Cergy Paris University, Cergy-Pontoise, France, France

## FR-14. Doping Effect on Paramagnetic-to-Nonmagnetic Phase Transition of $\text{Ba}_3\text{BiRu}_2\text{O}_9$

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<sup>1</sup>, T. Orito<sup>1</sup>, D. Yamamoto<sup>1,2</sup>

<sup>1</sup>Department of Physics, College of Humanities and Sciences, Nihon University, Setagaya, Tokyo, Japan, <sup>2</sup>RIKEN Center for Quantum Computing, Wako, Saitama, Japan

## FR-16. Quantum Effects on the Magnetization Curve in the Triangular-Lattice Spin-Chain Compound $\text{CsFeCl}_3$

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<sup>1</sup>, A. Lászlóffy<sup>2</sup>, L. Szunyogh<sup>1</sup>, B. Ujfalussy<sup>2</sup>, L. Rózsa<sup>2</sup>

<sup>1</sup>Department of Theoretical Physics, Budapest University of Technology and Economics, Budapest, Hungary, <sup>2</sup>Wigner Research Centre for Physics, Budapest, Hungary

## FR-18LB. Annealing-controlled magnetic ordering in MnSb<sub>2</sub>Te<sub>4</sub>

L. Zeni Cunha<sup>1</sup>, A. van Dijke<sup>1</sup>, N. Hitzelberger<sup>1</sup>, L. Corredor<sup>2</sup>, A. Isaeva<sup>2</sup>

<sup>1</sup>Institute of Physics, University of Amsterdam, Amsterdam, Netherlands, <sup>2</sup>Physics, TU Dortmund University, Dortmund, Germany

## FR-19LB. Room-Temperature Ferromagnetism and Electronic Structure in Cr-Doped PdTe<sub>2</sub>

S. Cheng<sup>1</sup>, H. Shiu<sup>1</sup>, T. Chuang<sup>1</sup>, Y. Lai<sup>1</sup>, W. Chen<sup>1</sup>, D. Wei<sup>1</sup>, H. Wei<sup>1</sup>, C. Lue<sup>2</sup>, Y. Hsu<sup>1</sup>

<sup>1</sup>National Synchrotron Radiation Research Center, Hsinchu, Taiwan, <sup>2</sup>Department of Physics, National Cheng Kung University, Tainan, Taiwan

## FR-20LB. High-temperature spin glass behavior at the interface of Ni/MoS<sub>2</sub> heterostructures

T. Kidd<sup>1</sup>, P. Shand<sup>2</sup>, E. Ahmetasevic<sup>2</sup>, P. Nguyen<sup>2</sup>, T. Porter<sup>2</sup>, C. J. Cunningham<sup>2</sup>, H. Harms<sup>2</sup>, S. Diallo<sup>2</sup>, G. Ye<sup>3</sup>, P. Lukashev<sup>2</sup>, L. Zhou<sup>4</sup>, A. J. Stollenwerk<sup>2</sup>, R. He<sup>5</sup>

<sup>1</sup>Ames National Laboratory, Ames, Iowa, United States, <sup>2</sup>Physics, University of Northern Iowa, Cedar Falls, Iowa, United States,

<sup>3</sup>Electrical Engineering, Texas Tech University, Lubbock, Texas, United States, <sup>4</sup>Materials Sciences & Engineering, University of Virginia, Charlottesville, Virginia, United States, <sup>5</sup>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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### 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

**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<sup>1</sup>, A. Dainone<sup>2</sup>, G. Lan<sup>1</sup>, A. Pezo<sup>1</sup>, Y. Xu<sup>1</sup>, S. Collin<sup>1</sup>, F. Godel<sup>1</sup>, Y. Lu<sup>2</sup>, N. Reyren<sup>1</sup>, H. Jaffrès<sup>1</sup>, J. George<sup>1</sup>

<sup>1</sup>Laboratoire Albert Fert, Palaiseau, France, <sup>2</sup>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<sup>1</sup>, V. Iglesias-Cardinale<sup>1</sup>, Y. Lu<sup>2</sup>, H. Fotsos<sup>1</sup>, T. Thomay<sup>1</sup>

<sup>1</sup>Physics, SUNY at Buffalo, Buffalo, New York, United States, <sup>2</sup>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-10:18 AM**

### **GA-05. Chiral Perovskites for Spin-optoelectronics**

H. Lu

*Chemistry, The Hong Kong University of Science and Technology, Hong Kong, Hong Kong*

10:18 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<sup>1</sup>, Y. Ohno<sup>1,2</sup>

<sup>1</sup>National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan, <sup>2</sup>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<sup>1</sup>, H. Koizumi<sup>1</sup>, E. Moedl<sup>1</sup>, D. Oue<sup>2</sup>, M. Matsuo<sup>4</sup>, A. Hirohata<sup>1,3</sup>

<sup>1</sup>CSIS, Tohoku University, Sendai, Japan, <sup>2</sup>RIKEN, Wako, Japan, <sup>3</sup>Chemical Physics of Solids, Max Planck Institute, Dresden, Germany,

<sup>4</sup>Kavli Institute, Beijing, China

**11:33 AM-11:45 AM**

**GA-08. Harnessing plasmonic heating for switching in antiferromagnets**

H. Yuan<sup>1</sup>, Y. Wu<sup>2</sup>, O. Gomonay<sup>3</sup>

<sup>1</sup>Zhejiang University, Hangzhou, Zhejiang, China, <sup>2</sup>Fudan University, Shanghai, Shanghai, China, <sup>3</sup>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<sub>4</sub>NiTeO<sub>6</sub>**

S. Patil<sup>1,2</sup>, A. <sup>1,2</sup>, S. D. Kaushik<sup>1,2</sup>

<sup>1</sup>UGC-DAE Consortium for Scientific Research Mumbai Centre, Mumbai, Maharashtra, India, <sup>2</sup>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<sup>1,3</sup>, R. Sibille<sup>1</sup>, T. Mazet<sup>2</sup>, A. Piovano<sup>3</sup>, B. Malaman<sup>2</sup>, D. Gawryluk<sup>1</sup>, L. Roduit<sup>1</sup>, A. Turrini<sup>1</sup>, B. Roessli<sup>1</sup>, L. Keller<sup>1</sup>, Y. Soh<sup>1</sup>

<sup>1</sup>Paul Scherrer Institute, Villigen, Switzerland, <sup>2</sup>University of Lorraine, Nancy, France, <sup>3</sup>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<sup>1,2</sup>, T. Ono<sup>2</sup>, I. Diaz-Ortega<sup>3</sup>, T. Kihara<sup>3</sup>, H. Nojiri<sup>3</sup>, Y. Hosokoshi<sup>2</sup>, J. Campo<sup>1</sup>

<sup>1</sup>Spanish National Research Council (CSIC), Zaragoza, Spain, <sup>2</sup>Osaka Metropolitan University, Sakai, Japan, <sup>3</sup>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<sub>11</sub>O<sub>19</sub>, as a playground for Triangular Lattice Magnetism**

R. H. Colman<sup>1</sup>, S. Kumar<sup>1</sup>, G. Bastien<sup>1</sup>, A. Kancko<sup>1</sup>, C. A. Correa<sup>2</sup>, T. Treu<sup>3</sup>, P. Gegenwart<sup>3</sup>

<sup>1</sup>Department of Condensed Matter Physics, Charles University, Prague, Czechia, <sup>2</sup>Institute of Physics, Czech Academy of Sciences, Prague, Czechia, <sup>3</sup>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<sup>1</sup>, Y. Hao<sup>2</sup>, C. Huang<sup>3</sup>, S. Chen<sup>2</sup>, J. Green<sup>1</sup>, H. Roshandel<sup>4</sup>, J. He<sup>4</sup>, W. Laderer<sup>4</sup>, M. Tran<sup>1</sup>, P. Diaconescu<sup>4</sup>, A. Alexandrova<sup>4</sup>, C. D. Batista<sup>2,3</sup>, H. Cao<sup>2</sup>, N. Ni<sup>1,5</sup>

<sup>1</sup>Department of Physics and Astronomy, University of California, Los Angeles, Los Angeles, California, United States, <sup>2</sup>Neutron Scattering Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, <sup>3</sup>Department of Physics and Astronomy, University of Tennessee, Knoxville, Tennessee, United States, <sup>4</sup>Department of Chemistry and Biochemistry, University of California, Los Angeles, Los Angeles, California, United States, <sup>5</sup>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<sup>1</sup>, Y. L. Guen<sup>2</sup>, J. Hohlfield<sup>2</sup>, R. Morales<sup>3,4</sup>, S. Mangin<sup>2</sup>, P. Vavassori<sup>4,5</sup>, J. Porro<sup>1,4</sup>

<sup>1</sup>BCMaterials, Leioa, Spain, <sup>2</sup>Insitut Jean Lamour, Université de Lorraine, Nancy, France, <sup>3</sup>Chemical-Physics, University of the Basque Country, Leioa, Vizcaya, Spain, <sup>4</sup>IKERBASQUE, Bilbao, Spain, <sup>5</sup>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<sup>1</sup>, Y. Liang<sup>2</sup>, W. Farias<sup>1</sup>, A. Bielicki<sup>1</sup>, R. Jin<sup>2</sup>

<sup>1</sup>Physics and Astronomy, College of Charleston, Charleston, South Carolina, United States, <sup>2</sup>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<sub>100-x</sub>Gd<sub>x</sub> 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<sub>3</sub> and dynamical strong coupling of Fe spins and Yb orbitals**

O. Kovalenko<sup>1</sup>, N. Vovk<sup>1</sup>, A. Wu<sup>2</sup>, R. V. Mikhaylovskiy<sup>1</sup>

<sup>1</sup>Lancaster University, Lancaster, UK, United Kingdom, <sup>2</sup>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<sup>1,2</sup>, C. Léveillé<sup>1,2</sup>, R. Gruber<sup>3</sup>, D. Ksenzov<sup>4</sup>, E. Pedersoli<sup>5</sup>, F. Capotondi<sup>5</sup>, C. Gutt<sup>4</sup>, M. Kläui<sup>3</sup>, V. Cros<sup>2</sup>, N. Reyren<sup>2</sup>, N. Jaouen<sup>1</sup>

<sup>1</sup>Synchrotron SOLEIL, Gif sur Yvette, France, <sup>2</sup>laboratoire Albert Fert, Palaiseau, France, <sup>3</sup>Institut of Physics, Johannes Gutenberg-Universität Mainz, Mainz, Germany, <sup>4</sup>Department Physik, Universität Siegen, Siegen, Germany, <sup>5</sup>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. Kuniyanguyen<sup>1</sup>, D. Petty Gweha Nyoma<sup>1</sup>, G. Malinowski<sup>1</sup>, B. Seng<sup>1</sup>, W. Zhang<sup>1</sup>, J. Hohlfield<sup>1</sup>, J. Gorchon<sup>1</sup>, D. Lacour<sup>1</sup>, J. Lin<sup>1</sup>, Y. L. Guen<sup>1</sup>, L. D. Buda-Prejbeanu<sup>2</sup>, E. Fullerton<sup>3</sup>, S. Mangin<sup>1</sup>, f. montaigne<sup>1</sup>, M. Hehn<sup>1</sup>

<sup>1</sup>P2M, Institut Jean Lamour, Nancy, Lorraine, France, <sup>2</sup>Spintec, Grenoble, France, <sup>3</sup>UCLA, San Diego, California, United States

11:33 AM-11:45 AM

**GC-10. Emergence of the nontraditional magnetic ordering from RuO<sub>2</sub>: Importance of nonequilibrium and degeneracy**

G. Zhang<sup>1</sup>, Y. Liu<sup>2</sup>, M. Si<sup>2</sup>, J. Wang<sup>3</sup>, Y. Bai<sup>1</sup>, T. F. George<sup>4</sup>

<sup>1</sup>Indiana State University, Terre Haute, Indiana, United States, <sup>2</sup>Lanzhou University, Lanzhou, China, <sup>3</sup>China University of Mining and Technology, Xuzhou, China, <sup>4</sup>University of Missouri-St Louis, St. Louis, Missouri, United States

11:45 AM-11:57 AM

**GC-11. Collinear Magnetic Multipole Hamiltonians: Unveiling Additional Splitting in Altermagnets and Beyond**

G. C. Moore, O. Ashour, M. Vila, S. M. Griffin

Lawrence Berkeley National Laboratory, Berkeley, California, 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<sup>1</sup>, A. Paul<sup>1</sup>, Q. Guo<sup>1</sup>, J. Shield<sup>1,2</sup>

<sup>1</sup>Mechanical & Materials Engineering, University of Nebraska-Lincoln, Lincoln, Nebraska, United States, <sup>2</sup>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<sup>1</sup>, Z. Kautsar<sup>1</sup>, H. Sepehri-Amin<sup>1</sup>, T. Kajiwar<sup>2</sup>, H. Miyawaki<sup>2</sup>, T. Ohkubo<sup>1</sup>, K. Hono<sup>1</sup>

<sup>1</sup>National Institute for Materials Science, Tsukuba, Ibaraki, Japan, <sup>2</sup>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<sup>1,2</sup>, O. Akdogan<sup>3,2</sup>

<sup>1</sup>Piri Reis University, Istanbul, Turkey, <sup>2</sup>NANOTerial Technology, Istanbul, Turkey, <sup>3</sup>Bahcesehir University, Istanbul, Turkey

09:30 AM-09:42 AM

**GD-05. First-Order Reversal Curve Analysis of Bonded and Sintered SmCo<sub>5</sub>-Based Magnets**

T. Suwa<sup>3,1</sup>, K. Park<sup>3</sup>, S. Okamoto<sup>1,2</sup>, Y. Hirayama<sup>3</sup>

<sup>1</sup>Tohoku University, Sendai, Japan, <sup>2</sup>National Institute for Materials Science, Tsukuba, Japan, <sup>3</sup>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<sup>1</sup>, Z. Liu<sup>1</sup>, T. Suwa<sup>1,2</sup>, S. Okamoto<sup>2,3</sup>, Y. Hirayama<sup>1</sup>

<sup>1</sup>National Institute of Advanced Industrial Science and Technology (AIST), Nagoya, Japan, <sup>2</sup>Tohoku University, Sendai, Japan,

<sup>3</sup>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<sup>1</sup>, Y. Tatetsu<sup>2</sup>

<sup>1</sup>National Institute of Advanced Industrial Science and Technology, Nagoya, Japan, <sup>2</sup>Meio University, Nago, Japan

10:06 AM-10:18 AM

**GD-08. Cell-like structure of high coercivity Sm<sub>2</sub>(Fe, Mn)<sub>17</sub>N<sub>x</sub> 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<sub>0</sub> 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<sup>1</sup>, C. Murakami<sup>2</sup>, T. Hasegawa<sup>2</sup>

<sup>1</sup>UTokyo, Tokyo, Tokyo, Japan, <sup>2</sup>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<sup>1</sup>, T. Li<sup>2</sup>, K. Zeng<sup>2</sup>, C. Liu<sup>3</sup>, W. Beeson<sup>1</sup>, X. Zhang<sup>3</sup>, G. Yin<sup>1</sup>, L. Hu<sup>2</sup>, K. Liu<sup>1</sup>

<sup>1</sup>Physics, Georgetown University, Washington, District of Columbia, United States, <sup>2</sup>Materials Science, Yale University, New Haven, Connecticut, United States, <sup>3</sup>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<sup>1</sup>, E. Oliphant<sup>2,1</sup>, W. Sun<sup>1</sup>

<sup>1</sup>Materials Science and Engineering, University of Michigan, Ann Arbor, Michigan, United States, <sup>2</sup>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<sup>1,2</sup>, A. García-Arribas<sup>1</sup>, J. Gutiérrez<sup>1</sup>, J. Saiz Garitaonandia<sup>1</sup>, A. Lasheras<sup>1</sup>

<sup>1</sup>University of the Basque Country, Leioa, Spain, <sup>2</sup>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<sup>1</sup>, M. Staruch<sup>1</sup>, N. J. Jones<sup>2</sup>, J. Yoo<sup>2</sup>, R. Olsson<sup>3</sup>, M. G. Allen<sup>3</sup>, P. Finkel<sup>1</sup>

<sup>1</sup>Material Science & Technology, US Naval Research Laboratory, Washington, District of Columbia, United States, <sup>2</sup>Carderock Division, Naval Surface Warfare Center, Bethesda, Maryland, United States, <sup>3</sup>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<sup>1</sup>, S. Abdizadeh Kalan<sup>1</sup>, G. T. Street<sup>1</sup>, A. Almahmoud<sup>1</sup>, C. Klewe<sup>2</sup>, S. Emori<sup>1</sup>

<sup>1</sup>Physics, Virginia Tech, Blacksburg, Virginia, United States, <sup>2</sup>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<sup>1</sup>, F. Máca<sup>1</sup>, V. Drchal<sup>1</sup>, L. Straka<sup>1</sup>, V. Chlan<sup>2</sup>, H. Seiner<sup>4</sup>, J. Zemen<sup>1,3</sup>

<sup>1</sup>Magnetic Materials, FZU – Institute of Physics of the Czech Academy of Sciences, Prague, Czechia, <sup>2</sup>Low Temperature Physics, Faculty of Mathematics and Physics, Charles University, Prague, Czechia, <sup>3</sup>Faculty of Electrical Engineering, Czech Technical University, Prague, Czechia, <sup>4</sup>Institute of Thermomechanics of the Czech Academy of Sciences, Prague, Czechia

09:54 AM-10:45 AM

Break

**10:45 AM-11:21 AM**

**GE-08. On-demand, static and dynamic, Modulation of Photon-Magnon Coupling**

A. Joseph, M. A. Smith, M. P. Weides, R. Macêdo

*James Watt School of Engineering, Electronics & Nanoscale Engineering Division, University of Glasgow, Glasgow, United Kingdom*

**11:21 AM-11:33 AM**

**GE-09. Tuning Magnetocaloric Response by Shape Anisotropy in NiCoGa Nanowire Arrays**

A. A. Mendonça<sup>1</sup>, V. M. Prida<sup>2</sup>, V. Vega<sup>2</sup>, F. Béron<sup>1</sup>

<sup>1</sup>*Universidade Estadual de Campinas, Campinas, Brazil*, <sup>2</sup>*Universidad de Oviedo, Oviedo, Oviedo, Spain*

**11:33 AM-11:45 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<sup>1</sup>, R. Van Haren<sup>1</sup>, V. Sharma<sup>1</sup>, L. Tai<sup>2,3</sup>, B. Dai<sup>3</sup>, H. Chi<sup>4</sup>, K. Wang<sup>3</sup>, A. T. Hanbicki<sup>1</sup>, A. Friedman<sup>1</sup>

<sup>1</sup>*Laboratory for Physical Sciences, College Park, Maryland, United States*, <sup>2</sup>*RIKEN, Wako, Japan*, <sup>3</sup>*University of California, Los Angeles, Los Angeles, California, United States*, <sup>4</sup>*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  $\text{Cr}_{1/3}\text{NbS}_2$**

L. DeBeer-Schmitt<sup>1</sup>, M. Henderson<sup>1</sup>, A. Aczel<sup>1</sup>, M. McGuire<sup>2</sup>, N. J. Ghimire<sup>3</sup>, S. Kuhn<sup>1</sup>, M. Eskildsen<sup>3</sup>, D. Mandrus<sup>4</sup>

<sup>1</sup>Neutron Science Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, <sup>2</sup>MSTD, Oak Ridge National

Laboratory, Oak Ridge, Tennessee, United States, <sup>3</sup>Physics Department, University of Notre Dame, Notre Dame, Indiana, United States,

<sup>4</sup>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<sup>1</sup>, R. Ando<sup>2</sup>, M. Mizuno<sup>1</sup>, T. Aono<sup>1</sup>, T. Chiba<sup>3</sup>, T. Komine<sup>1</sup>

<sup>1</sup>Ibaraki University, Hitachi, Japan, <sup>2</sup>Ibaraki College, Hitachinaka, Japan, <sup>3</sup>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<sup>1</sup>, C. Liu<sup>1</sup>, Z. Chen<sup>2</sup>, V. Sharma<sup>1</sup>, K. Liu<sup>2</sup>, J. Tang<sup>3</sup>, S. Zhang<sup>4</sup>, M. Wu<sup>1</sup>

<sup>1</sup>Physics, Northeastern University, Boston, Massachusetts, United States, <sup>2</sup>Physics, Georgetown University, Washington, District of Columbia, United States, <sup>3</sup>Physics, University of Wyoming, Laramie, Wyoming, United States, <sup>4</sup>Physics, Case Western Reserve

University, Cleveland, Ohio, United States

11:21 AM-11:33 AM

**GF-09. Development of Wafer-Scaled  $\text{Sb}_2\text{Te}_3$  Topological Insulator for Highly Efficient Spin-Charge Interconversion at Room Temperature**

E. M. Longo<sup>2</sup>, R. M. Ahmed<sup>1</sup>, A. Shafiei<sup>1</sup>, M. Belli<sup>3</sup>, M. Longo<sup>4</sup>, M. Alia<sup>1</sup>, C. Wiemer<sup>1</sup>, R. Mantovan<sup>1</sup>

<sup>1</sup>Unit of Agrate Brianza, CNR-IMM, Agrate Brianza (MB), Please select one below: Italy, <sup>2</sup>Laboratory of Multifunctional Oxides and Complex Structures, ICMA-B-CSIC, Barcelona, Spain, <sup>3</sup>CNR-IMEM, Parma, Italy, <sup>4</sup>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  $\text{Bi}_{85}\text{Sb}_{15}$**

V. Sharma<sup>1,2</sup>, R. Van Haren<sup>2</sup>, V. Kalappattil<sup>3</sup>, V. Sharma<sup>3</sup>, D. Takhar<sup>4</sup>, F. M. Abel<sup>5</sup>, G. M. Stephen<sup>2</sup>, R. K. Ghosh<sup>4</sup>, M. Wu<sup>3</sup>, A. T. Hanbicki<sup>2</sup>, A. Friedman<sup>2</sup>

<sup>1</sup>University of Maryland College Park, College Park, Maryland, United States, <sup>2</sup>Laboratory for Physical Sciences, College Park, Maryland, United States, <sup>3</sup>Northeastern University, Boston, Massachusetts, United States, <sup>4</sup>IIIT Delhi, Delhi, India, <sup>5</sup>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<sup>1,2</sup>, B. Jordan<sup>2</sup>, J. Fleischer<sup>1</sup>, J. Kotsakidis<sup>2</sup>, K. M. Daniels<sup>2</sup>

<sup>1</sup>Laboratory for Physical Sciences, College Park, Maryland, United States, <sup>2</sup>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<sup>1,2,3</sup>, L. Liao<sup>2,4</sup>, H. Isshiki<sup>4</sup>, Z. Chen<sup>3,5</sup>, J. Puebla<sup>2</sup>, Q. Shao<sup>1,3,5</sup>, Y. Otani<sup>2,4</sup>

<sup>1</sup>Electronic and Computer Engineering, Hong Kong University of Science and Technology, Hong Kong, Hong Kong, <sup>2</sup>Center for Emergent Matter Science, RIKEN, Wako, Japan, <sup>3</sup>IAS Center for Quantum Technologies, Hong Kong University of Science and Technology, Hong Kong, Hong Kong, <sup>4</sup>Institute for Solid State Physics, University of Tokyo, Tokyo, Japan, <sup>5</sup>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. Sahní<sup>1</sup>, D. Wagle<sup>1,2</sup>, B. Jungfleisch<sup>1</sup>, L. Gundlach<sup>1,3</sup>, Y. Ren<sup>1</sup>, J. Q. Xiao<sup>1</sup>

<sup>1</sup>Physics and Astronomy, University of Delaware, Newark, Delaware, United States, <sup>2</sup>Laboratory for Physical Sciences, College Park, Maryland, United States, <sup>3</sup>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<sup>1, 2, 3</sup>, V. Lomakin<sup>1, 2, 3</sup>

<sup>1</sup>Center for Memory and Recording Research, University of California San Diego, La Jolla, California, United States, <sup>2</sup>Program in Materials Science and Engineering, University of California, San Diego, La Jolla, California, United States, <sup>3</sup>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<sup>1</sup>, Y. Otsuka<sup>1</sup>, T. Watanabe<sup>2</sup>, E. Negishi<sup>2</sup>, K. Ishiyama<sup>1</sup>, T. Goto<sup>1</sup>

<sup>1</sup>Research Institute of Electrical Communication, Sendai, Japan, <sup>2</sup>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<sup>1</sup>, S. Lendinez<sup>2</sup>, S. Joseph<sup>3</sup>, B. Jungfleisch<sup>1</sup>

<sup>1</sup>Physics & Astronomy, University of Delaware, Newark, Delaware, United States, <sup>2</sup>Louisiana State University, Baton Rouge, Louisiana, United States, <sup>3</sup>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<sup>1</sup>, S. Chatterjee<sup>1</sup>, S. Sugimoto<sup>2</sup>, S. Kasai<sup>2</sup>

<sup>1</sup>IIT(BHU), Varanasi, India, <sup>2</sup>NIMS, Tsukuba, Japan

**GP-02LB. Optimized control protocols for stable skyrmion creation using deep reinforcement learning**

J. Song<sup>1</sup>, S. Kim<sup>1</sup>, K. Kim<sup>2</sup>

<sup>1</sup>Graduate School of Quantum Science and Technology, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of), <sup>2</sup>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<sup>1, 2</sup>, K. Adachi<sup>2</sup>, R. Ishikawa<sup>3, 4, 5</sup>, H. Imanishi<sup>2</sup>, E. Tamura<sup>2, 6</sup>, Y. Shiota<sup>7, 8</sup>, T. Nozaki<sup>9</sup>, M. Goto<sup>5, 10, 11</sup>, H. Nomura<sup>5, 10, 12</sup>, Y. Suzuki<sup>2, 5, 13</sup>

<sup>1</sup>WPI-AIMR, Tohoku University, Sendai, Miyagi, Japan, <sup>2</sup>Graduate School of Engineering Science, The University of Osaka, Toyonaka, Osaka, Japan, <sup>3</sup>Graduate school of Engineering, The University of Osaka, Suita, Osaka, Japan, <sup>4</sup>ULVAC, inc., Suita, Osaka, Japan, <sup>5</sup>OTRI-Osaka, The University of Osaka, Suita, Osaka, Japan, <sup>6</sup>Graduate school of Engineering, Kyoto University, Kyoto, Kyoto, Japan, <sup>7</sup>Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan, <sup>8</sup>CSRN-Kyoto, Kyoto University, Uji, Kyoto, Japan, <sup>9</sup>AIST, Tsukuba, Ibaraki, Japan, <sup>10</sup>CSRN-Osaka, The University of Osaka, Toyonaka, Osaka, Japan, <sup>11</sup>Tokyo University of Science, Katsushika, Japan, <sup>12</sup>SRIS, Tohoku University, Sendai, Japan, <sup>13</sup>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, Linköping University, Linköping, 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<sup>1,2</sup>, K. Muthukrishnan<sup>1</sup>, X. Hu<sup>1</sup>, M. Frank<sup>3</sup>, F. Garcia-Sanchez<sup>4</sup>, A. J. Edwards<sup>1</sup>, D. Querlioz<sup>2</sup>, J. S. Friedman<sup>1</sup>

<sup>1</sup>Electrical and Computer Engineering, University of Texas at Dallas, Richardson, Texas, United States, <sup>2</sup>Universite Paris-Saclay, Palaiseau, France, <sup>3</sup>Vaire Computing, Sunnyvale, California, United States, <sup>4</sup>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. Fetta<sup>1</sup>, J. Tonnerre<sup>1</sup>, E. Mossang<sup>1</sup>, A. Masseboeuf<sup>2</sup>, A. Bernand-Mantel<sup>3</sup>, C. Gatel<sup>3</sup>, N. Jaouen<sup>4</sup>, H. Popescu<sup>4</sup>, A. Wartelle<sup>1</sup>, G. Beutier<sup>5</sup>, L. Ortega<sup>6</sup>, V. P. Nascimento<sup>7</sup>, E. C. Passamani<sup>7</sup>, N. Rougemaille<sup>1</sup>

<sup>1</sup>Neel Institute, CNRS, Grenoble, France, <sup>2</sup>SPINTEC, CEA, Grenoble, France, <sup>3</sup>CEMES, CNRS, Toulouse, France, <sup>4</sup>Exp Divisio, Synchrotron SOLEIL, Saint-Aubin, France, <sup>5</sup>SIMaP, Université Grenoble Alpes, Université Grenoble Alpes, France, <sup>6</sup>LPS, CNRS, Orsay, France, <sup>7</sup>Physics, Universidade Federal do Espirito santo, Vitoria, Brazil

## GP-10. Magnon Propagation and Topological Phases in Hybrid Breathing-Honeycomb Lattice

P. Andrade<sup>1</sup>, M. da Silva Tavares<sup>1,2</sup>, R. F. Pinto<sup>3</sup>

<sup>1</sup>Department of Physics, State University of Maranhão, São Luís, Maranhão, Brazil, <sup>2</sup>Department of Physics, Federal Institute of Maranhão, São Luís, Maranhão, Brazil, <sup>3</sup>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<sup>1</sup>, A. Bhattacharya<sup>2,3</sup>, A. Kumar<sup>1</sup>, A. Schmidig<sup>1</sup>, S. Majee<sup>2,4</sup>, S. DuttaGupta<sup>2</sup>, I. Das<sup>2</sup>, P. Singh<sup>1</sup>, Y. Mudryk<sup>1</sup>

<sup>1</sup>Ames National Laboratory, U.S. Department of Energy, Ames, Iowa, United States, <sup>2</sup>Condensed Matter and Surface Physics Division, Saha Institute of Nuclear Physics, Kolkata, West Bengal, India, <sup>3</sup>Department of Physics, Bar-Ilan University, Ramat-Gan, Israel, <sup>4</sup>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<sup>1</sup>, S. Chandran<sup>2</sup>

<sup>1</sup>Department of Physics, IIT Madras, Chennai, Tamilnadu, India, <sup>2</sup>Department of Physics, IIT Madras, Chennai, Tamilnadu, India

## GP-13. Hole-induced magnetic solitons, the percolation-like properties, and spin glass mechanism in manganites

I. Kanazawa

*Physics, Tokyo Gakuji University, Tokyo, Japan*

## GP-14. Microscopic Magnon-Phonon Coupling in 2D CrCl<sub>3</sub>: Toward Functional Spin-Lattice Engineering.

J. Mejia<sup>1,2</sup>, F. Nuñez-Murillo<sup>1,2</sup>

<sup>1</sup>Physics, Universidad Católica de Chile, Santiago, Chile, <sup>2</sup>Millenium Institute on Green Ammonia as Energy Vector MIGA-ANID, Santiago, Chile

## GP-15. Permutationally Invariant Signatures of Measurement-Induced Phase Transitions

K. Tokue<sup>1</sup>, D. Yamamoto<sup>1,2</sup>

<sup>1</sup>Department of Physics, College of Humanities and Sciences, Nihon University, Setagaya, Tokyo, Japan, <sup>2</sup>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 $\text{Sc}_2\text{CO}_2/\text{Bilayer-NiCl}_2/\text{Sc}_2\text{CO}_2$ Multiferroic Heterostructures

H. Wang<sup>1,2,3</sup>, X. Guo<sup>2</sup>, B. Chi<sup>1</sup>, Y. Zhu<sup>4</sup>, Y. Yan<sup>2</sup>, X. Han<sup>1</sup>

<sup>1</sup>Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, Beijing, China, <sup>2</sup>Key Laboratory of Physics and Technology for Advanced Batteries (Ministry of Education), Department of Physics, Jilin University, Changchun, Jilin, China, <sup>3</sup>Center of Materials Science and Optoelectronics Engineering, University of Chinese Academy of Sciences, Beijing, China, <sup>4</sup>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 $\text{Gd}_{0.3}\text{Ho}_{0.7}\text{FeO}_3$ 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 $\text{Dy}_x\text{Co}_{1-x}$ ferrimagnetic alloy thin films through composition

R. Kaur, Y. V. Shalhotri, 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<sup>1</sup>, H. Yun<sup>1</sup>, J. Moon<sup>1</sup>, Y. Kim<sup>2</sup>, S. Gim<sup>2</sup>

<sup>1</sup>Department of Physics, Sogang University, Seoul, Korea (the Republic of), <sup>2</sup>Department of Physics, KAIST, Daejeon, Korea (the Republic of)

### GQ-05. Extrinsic scattering induced magnon spin swapping effect in Bi-doped yttrium iron garnet

B. Yang, B. Zheng, D. Wu

*Nanjing University, Nanjing, China*

### GQ-06LB. Superconducting diode effect in magnetic superconductors realized by nonreciprocal domain-wall dynamics

D. Han<sup>1</sup>, S. Chung<sup>2</sup>, S. Kim<sup>1</sup>

<sup>1</sup>Physics, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea (the Republic of), <sup>2</sup>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

E. Ishii<sup>1</sup>, Y. Morishima<sup>2</sup>, N. Yamaguchi<sup>1</sup>

<sup>1</sup>Nanomaterials Research Institute, Kanazawa University, Kanazawa, Ishikawa, Japan, <sup>2</sup>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<sup>1,2,3</sup>, V. C. Rogers<sup>2,3</sup>, S. Islam<sup>2,3</sup>, J. C. Incorvia<sup>2,3</sup>

<sup>1</sup>Department of Electrical and Computer Engineering, Seoul National University, Seoul, Korea (the Republic of), <sup>2</sup>Chandra Family Department of Electrical and Computer Engineering, University of Texas at Austin, Austin, Texas, United States, <sup>3</sup>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<sup>1</sup>, Z. Xing<sup>2</sup>

<sup>1</sup>*School of Mathematics, Nanjing University of Aeronautics and Astronautics, Nanjing, Jiangsu, China,* <sup>2</sup>*School of Electronic Science and Engineering, Nanjing University, Nanjing, Jiangsu, China*

## **GQ-10. Control of d-wave antiferromagnetic domain by a tilted magnetic field**

H. Koizumi<sup>1,2,3</sup>, M. Kimata<sup>5,2</sup>, H. Yanagihara<sup>1</sup>, A. Hirohata<sup>2,4</sup>, Y. Yamasaki<sup>3,2</sup>

<sup>1</sup>*Univ. of Tsukuba, Tsukuba, Japan,* <sup>2</sup>*Tohoku University, Sendai, Japan,* <sup>3</sup>*NIMS, Tsukuba, Japan,* <sup>4</sup>*Max Planck Institute, Dresden, Germany,* <sup>5</sup>*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<sub>1-x</sub>Gd<sub>x</sub> Ferrimagnets Toward Low-Current, High-Stability Spintronic Memory devices**

S. Jeong<sup>1</sup>, D. Han<sup>2</sup>, S. Ko<sup>1</sup>, B. Park<sup>2</sup>, K. Kim<sup>1</sup>

<sup>1</sup>*Physics, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of),* <sup>2</sup>*Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea (the Republic of)*

## **GQ-13. Data driven discovery of antiferromagnetic 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<sub>2</sub>Mo<sub>3</sub>O<sub>8</sub>**

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<sup>1</sup>, J. Chang<sup>2,3</sup>, Y. Jeong<sup>1,2</sup>, M. Kim<sup>2,3</sup>, A. Lee<sup>4</sup>, J. Lee<sup>4</sup>, Y. Choi<sup>4</sup>, S. Park<sup>4</sup>, S. Choe<sup>3</sup>, K. Kim<sup>5</sup>, D. Kim<sup>2</sup>, S. Je<sup>1</sup>

<sup>1</sup>*Department of Physics, Chonnam National University, Gwangju, Korea (the Republic of),* <sup>2</sup>*Center of Spintronics, Korea Institute of Science and Technology (KIST), Seoul, Korea (the Republic of),* <sup>3</sup>*Department of Physics & Astronomy, Seoul National University, Seoul, Korea (the Republic of),* <sup>4</sup>*Center for Scientific Instrumentation, Korea Basic Science Institute, Daejeon, Korea (the Republic of),* <sup>5</sup>*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<sup>1</sup>, Y. Mok<sup>2,3</sup>, M. Kim<sup>2,3</sup>, S. Choe<sup>2</sup>, D. Kim<sup>3</sup>, S. Je<sup>1</sup>

<sup>1</sup>*Department of Physics, Chonnam National University, Gwangju, Korea (the Republic of),* <sup>2</sup>*Department of Physics & Astronomy, Seoul National University, Seoul, Korea (the Republic of),* <sup>3</sup>*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<sup>3</sup>, K. Shiku<sup>2</sup>, T. Nara<sup>2</sup>, Y. Gotoh<sup>1</sup>

<sup>1</sup>*Faculty of Science and Engineering, Oita University, Oita, Japan*, <sup>2</sup>*Graduate School of Information Science and Technology, The University of Tokyo, Bunkyo-ku, Tokyo, Japan*, <sup>3</sup>*Graduate School of Science and Engineering, Oita University, Oita, Japan*

### GR-03. Characterization of magnetic particle ensembles in magnetically fluidized beds

C. De Somer<sup>1</sup>, R. De Croo<sup>1</sup>, H. Poelman<sup>2</sup>, V. Galvita<sup>2</sup>, G. Heynderickx<sup>2</sup>, L. Dupré<sup>1</sup>, A. Coene<sup>1</sup>

<sup>1</sup>*Department of Electromechanical, Systems and Metal Engineering, Ghent University, Gent, Belgium*, <sup>2</sup>*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<sup>1,3</sup>, D. Cahill<sup>2,3</sup>

<sup>1</sup>*Department of Physics, University of Illinois Urbana-Champaign, Urbana, Illinois, United States*, <sup>2</sup>*Department of Materials Science and Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, United States*, <sup>3</sup>*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 Sick Red Blood Cells Using a Quadrupole Magnetic Sorter

D. M. Phan<sup>1</sup>, L. Nguyen T. Tran<sup>1</sup>, P. Iyer<sup>2</sup>, J. Chalmers<sup>2</sup>, J. Gomez-Pastora<sup>1</sup>

<sup>1</sup>*Chemical Engineering, Texas Tech University, Lubbock, Texas, United States*, <sup>2</sup>*William G. Lowrie Department of Chemical and Biomolecular Engineering, The Ohio State University, Columbus, Ohio, United States*

### GR-07. State-Of-The-Art Reference Sample for NV-Center Microscopy: Tip Calibration and Spatial Resolution Benchmark

Y. Sassi<sup>1</sup>, K. Bouzehouane<sup>2</sup>, A. Finco<sup>3</sup>, D. Mailly<sup>4</sup>, E. Montebianco<sup>1</sup>, D. Ravelosona<sup>1,4</sup>

<sup>1</sup>*Spin-Ion Technologies, Centre de Nanosciences et Nanotechnologies (C2N), Palaiseau, France*, <sup>2</sup>*Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France*, <sup>3</sup>*Laboratoire Charles Coulomb, Université de Montpellier, Montpellier, France*, <sup>4</sup>*Centre de Nanosciences et de Nanotechnologies, CNRS, Université Paris-Saclay, Palaiseau, France*

### GR-08. Quantitative Analysis of Magnetic Image Effects on Torque Magnetometry for High-Precision Anisotropy Measurements

M. Rashid<sup>1</sup>, A. Sapkota<sup>2</sup>, L. Rodriguez<sup>2</sup>, W. Geerts<sup>2</sup>

<sup>1</sup>*Physics, Texas State University, San Marcos, Texas, United States*, <sup>2</sup>*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<sup>1</sup>, C. Su<sup>1</sup>, T. Ebii<sup>1</sup>, H. Petrache<sup>2</sup>, D. Maity<sup>2</sup>, S. Reza<sup>1</sup>

<sup>1</sup>Physics, Optical Engineering and NanoEngineering, Rose-Hulman Institute of Technology, Terre Haute, Indiana, United States,

<sup>2</sup>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<sup>1</sup>, J. Lee<sup>1</sup>, Y. Lee<sup>1</sup>, C. Jin<sup>2</sup>, W. Kim<sup>3</sup>

<sup>1</sup>Next Generation Smart Energy System Convergence, Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of),

<sup>2</sup>Electrical Engineering, Wonkwang University, Iksan-si, Jeonbuk-do, Korea (the Republic of), <sup>3</sup>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<sup>1</sup>, D. Bastos<sup>2</sup>, A. Soares<sup>2</sup>, L. Andrade<sup>2</sup>, J. Amaral<sup>3</sup>, K. Dixon-Anderson<sup>4,5</sup>, Y. Mudryk<sup>4,5</sup>, V. Franco<sup>6</sup>, J. P. Araújo<sup>2</sup>, R. Almeida<sup>2</sup>, J. H. Belo<sup>2</sup>

<sup>1</sup>Quantum Design, Inc., San Diego, California, United States, <sup>2</sup>Physics, IFIMUP – Institute of Physics for Advanced Materials, Nanotechnology and Photonics, Porto, Portugal, <sup>3</sup>Physics, University of Aveiro, Aveiro, Portugal, <sup>4</sup>Ames National Laboratory of US Department of Energy, Ames, Iowa, United States, <sup>5</sup>Department of Materials Science and Engineering, Iowa State University, Ames, Iowa, United States, <sup>6</sup>Department for Condensed Matter Physics, University of Seville, Seville, Spain

## GR-12. Tuning Magnetocaloric Response and Metamagnetism in Ho(Co<sub>1-x</sub>Cu<sub>x</sub>)<sub>2</sub>Si<sub>2</sub> 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<sup>1</sup>, W. Liao<sup>1</sup>, Y. Shao<sup>2</sup>

<sup>1</sup>Department of Applied Physics, National Pingtung University, Pingtung, Taiwan, <sup>2</sup>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<sub>2</sub>NiMnO<sub>6</sub>-Based Double Perovskites

J. Sultana<sup>1,2</sup>, S. Mishra<sup>2</sup>

<sup>1</sup>Natural Sciences, Texas A&M University-Texarkana, Texarkana, Texas, United States, <sup>2</sup>Physics and Materials Science, University of Memphis, Memphis, Tennessee, United States

## GR-16. Effect of ZrO<sub>2</sub> substitution in nitride grain boundary materials on magnetic properties and nanostructure for FePt granular films

K. Tham<sup>1</sup>, D. Miyazaki<sup>1</sup>, S. Saito<sup>2</sup>

<sup>1</sup>Tanaka Precious Metal Technologies, Tsukuba, Ibaraki, Japan, <sup>2</sup>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<sup>1</sup>, A. Fraile Rodríguez<sup>2</sup>, A. I. Figueroa<sup>2</sup>, D. Shapiro<sup>3</sup>, R. Sandberg<sup>1</sup>, K. Chesnel<sup>1</sup>

<sup>1</sup>Physics, Brigham Young University, Provo, California, United States, <sup>2</sup>Institute of Nanoscience and Nanotechnology, University of Barcelona, Barcelona, Barcelona, Spain, <sup>3</sup>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<sup>1</sup>, H. Wei<sup>2</sup>, M. Wu<sup>2</sup>, H. Chiu<sup>2</sup>, C. Hsu<sup>1</sup>, T. Chuang<sup>2</sup>, D. Wei<sup>2</sup>

<sup>1</sup>Physics, Chung Yuan Christian University, Taoyuan, Taiwan, <sup>2</sup>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. Fabbri

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<sup>1,2</sup>, C. McDonough<sup>1,2</sup>, T. Siddiqua<sup>1,2</sup>

<sup>1</sup>Physics Department, Oakland University, Rochester, Michigan, United States, <sup>2</sup>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<sup>2</sup>, H. Ye<sup>2</sup>, N. Cancino<sup>1</sup>, A. Suarez<sup>1</sup>, A. Vezzoni<sup>2</sup>, V. Pustovalov<sup>2</sup>, M. Sanchez<sup>1</sup>, B. Nelson<sup>2</sup>, S. Pané<sup>2</sup>

<sup>1</sup>IDIBAPS, Barcelona, Spain, <sup>2</sup>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<sup>1</sup>, S. A. Neeha<sup>2</sup>, R. L. Hadimani<sup>1</sup>

<sup>1</sup>Mechanical and Nuclear Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, <sup>2</sup>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<sup>2</sup>, R. L. Hadimani<sup>1</sup>

<sup>1</sup>Mechanical Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, <sup>2</sup>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<sup>1,2</sup>, C. Lee<sup>2,3</sup>, L. Ye<sup>2,3</sup>, S. Chen<sup>4</sup>, P. Chiu<sup>5</sup>, C. Huang<sup>6</sup>, C. Hsieh<sup>7</sup>, H. Chen<sup>8</sup>, T. Wu<sup>2,3</sup>

<sup>1</sup>Department of Neurosurgery, Show Chwan Memorial Hospital, Changhua, Taiwan, <sup>2</sup>Graduate School of Materials Science, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan, <sup>3</sup>Taiwan SPIN Research Center, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan, <sup>4</sup>Department of Mechanical and Mechatronic Engineering, National Taiwan Ocean University, New Taipei City, Taiwan, <sup>5</sup>Department of Neurology, Show Chwan Memorial Hospital, Changhua, Taiwan, <sup>6</sup>Biomechanics Lab., Department of Medical Research, MacKay Memorial Hospital, Taipei, Taiwan, <sup>7</sup>Department of Neurology, Yumin Medical Cooperation, Yumin Hospital, Nantou, Taiwan, <sup>8</sup>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<sup>1</sup>, X. Yang<sup>2</sup>

<sup>1</sup>Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China, <sup>2</sup>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<sup>1</sup>, M. Hollis<sup>1</sup>, E. Fullerton<sup>2</sup>, S. Montoya<sup>2</sup>

<sup>1</sup>Physics, University of Oregon, Eugene, Oregon, United States, <sup>2</sup>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<sup>1,2,3</sup>

*<sup>1</sup>VCQ, Vienna, Austria, <sup>2</sup>USTEM - TU Wien, Wien, Austria, <sup>3</sup>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<sup>1,2</sup>, S. Sun<sup>2,1</sup>, Y. Tsai<sup>1</sup>, H. Salazar<sup>1</sup>, A. J. Grutter<sup>3</sup>, D. Cortie<sup>4</sup>

*<sup>1</sup>Physics, National Sun Yat-sen University, Kaohsiung City, Taiwan, Taiwan, <sup>2</sup>Applied Physics, National University of Kaohsiung, Kaohsiung City, Taiwan, Taiwan, <sup>3</sup>Center for Neutron Research, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, <sup>4</sup>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<sup>1</sup>, S. Miyahara<sup>2</sup>

*<sup>1</sup>Department of Information and Systems Engineering, Fukuoka Institute of Technology, Fukuoka, Japan, <sup>2</sup>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 $\text{LaCoO}_3/\text{SrCoO}_{3-\delta}$ 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-03. Enhancing Magneto-Ionic Effects in All-Solid-State Magnetic Tunnel Junction through Ion Irradiation

Y. Sassi<sup>1</sup>, R. Mansell<sup>2</sup>, E. Montebianco<sup>1</sup>, M. Minhas<sup>3</sup>, J. Langer<sup>3</sup>, S. van Dijken<sup>2</sup>, D. Ravelosona<sup>1</sup>

<sup>1</sup>*Spin-Ion Technologies, Centre de Nanosciences et Nanotechnologies (C2N), Palaiseau, France*, <sup>2</sup>*NanoSpin, Department of Applied Physics, Aalto University School of Science, Aalto, Finland*, <sup>3</sup>*Singulus Technologies AG, Kahl am Main, Germany*

**03:00 PM-03:12 PM**

### HC-04. Strain-mediated Electric-field Control of Perpendicular Magnetic Tunnel Junctions in Multiferroic Heterostructures

X. Li<sup>1</sup>, Z. Qu<sup>1</sup>, Z. Liu<sup>2</sup>, B. Fang<sup>2</sup>, Z. Zeng<sup>2</sup>, Y. Zhao<sup>1</sup>

<sup>1</sup>*Tsinghua University, Beijing, China*, <sup>2</sup>*Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, Suzhou, China*

**03:12 PM-03:24 PM**

### HC-05. Magnetoelectric coupling in LSMO/BTO/Co/Pt multiferroic junctions probed via TMR

J. Pawlak<sup>1,2</sup>, J. Kanak<sup>2</sup>, W. Skowronski<sup>2</sup>

<sup>1</sup>*Academic Centre for Materials and Nanotechnology, AGH University of Krakow, Krakow, Poland*, <sup>2</sup>*Institute of Electronics, AGH University of Krakow, Krakow, Poland*

**03:24 PM-03:36 PM**

### HC-07. Manipulating Antiferromagnetic Spin Orientations in $\text{La}_{0.5}\text{Sr}_{0.5}\text{FeO}_3$ / $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Bilayers

Y. Takamura<sup>1</sup>, I. Nihal<sup>1,2</sup>, M. Frame<sup>1</sup>, C. Klewe<sup>2</sup>

<sup>1</sup>*Materials Science and Engineering, University of California, Davis, Davis, California, United States*, <sup>2</sup>*Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, California, United States*

**03:36 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  $\text{La}_{1.5}\text{Sr}_{0.5}\text{CoMnO}_6$**

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<sup>1</sup>, O. Wojewoda<sup>1</sup>, K. Hayashi<sup>2</sup>, Y. Kunai<sup>1</sup>, C. A. Ross<sup>1</sup>

<sup>1</sup>MIT, Cambridge, Massachusetts, United States, <sup>2</sup>Nagoya University, Nagoya, Japan

**05:15 PM-05:27 PM**

**HC-11. Depth-Resolved Profile of the Interfacial Ferromagnetism in  $\text{CaMnO}_3/\text{CaRuO}_3$  Superlattices**

J. R. Paudel<sup>1,2</sup>, A. Mansouri Tehrani<sup>3</sup>, M. Terilli<sup>4</sup>, M. Kareev<sup>4</sup>, J. Grassi<sup>2</sup>, R. K. Sah<sup>2</sup>, L. Wu<sup>4</sup>, V. N. Strocov<sup>6</sup>, C. Klewe<sup>1</sup>, P. Shafer<sup>5,1</sup>, J. Chakhalian<sup>4</sup>, N. A. Spaldin<sup>3</sup>, A. X. Gray<sup>2</sup>

<sup>1</sup>Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, California, United States, <sup>2</sup>Physics Department, Temple University, Philadelphia, Pennsylvania, United States, <sup>3</sup>Materials Theory, ETH Zurich, Zurich, Switzerland, <sup>4</sup>Department of Physics and Astronomy, Rutgers University, Piscataway, New Jersey, United States, <sup>5</sup>NSLS II, Brookhaven National Laboratory, Upton, New York, United States, <sup>6</sup>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<sup>1</sup>, J. Snarski-Adamski<sup>1</sup>, J. Rychly-Gruszecka<sup>1</sup>, J. Marciniak<sup>2,1</sup>, W. Marciniak<sup>2,3,1</sup>, P. Palczynski<sup>1</sup>

<sup>1</sup>Department of Theory of Nanostructures and Quantum Materials, Institute of Molecular Physics of the Polish Academy of Sciences, Poznan, Poland, <sup>2</sup>Department of Physics and Astronomy, Uppsala University, Uppsala, Sweden, <sup>3</sup>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  $\text{Sm}_2\text{Fe}_{17}\text{M}_x$  using Neural Network Potential**

Y. Tatetsu<sup>1</sup>, Y. Hirayama<sup>2</sup>

<sup>1</sup>University Center for Liberal Arts Education, Meio University, Nago, Okinawa, Japan, <sup>2</sup>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<sup>1</sup>, U. Amanjal<sup>2</sup>, K. Baatartsogt<sup>2</sup>, U. Enkhnanan<sup>2</sup>, M. Adiya<sup>1</sup>, O. Tumentsereg<sup>1</sup>, J. Narmandakh<sup>2</sup>, D. Odkhuu<sup>1</sup>

<sup>1</sup>Incheon National University, Incheon, Korea (the Republic of), <sup>2</sup>Mongolian Academy of Sciences, Ulaanbaatar, Mongolia

**04:27 PM-04:39 PM**

**HD-09. Orientation-dependent perpendicular magnetic anisotropy in epitaxial  $\text{Mn}_4\text{N}$  thin film on MgO substrate**

K. Imamura<sup>1</sup>, R. Kuwayama<sup>1</sup>, S. Isogami<sup>2</sup>, M. Ohtake<sup>1</sup>

<sup>1</sup>Yokohama National University, Yokohama, Japan, <sup>2</sup>National Institute for Materials Science (NIMS), Tsukuba, Japan

**04:39 PM-04:51 PM**

**HD-10. Development of Melt-Spun NdFeB/Alnico (Fe-Co) Nanocomposite Permanent Magnets for Variable-Flux Memory Motors**

S. Dussa, P. Olivier Gourmelon, C. Ravipalli

Jacobi Motor, Houston, Texas, United States

**04:51 PM-05:03 PM**

**HD-11. Thermally Activated Flux Loss of Sintered Nd-Fe-B Magnets under External Opposing Fields**

W. Tang<sup>1,2</sup>, J. Wang<sup>1</sup>, M. J. Kramer<sup>1</sup>, J. Cui<sup>1,2</sup>

<sup>1</sup>Ames National Laboratory, Ames, Iowa, United States, <sup>2</sup>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<sup>1</sup>, W. He<sup>2</sup>, S. Alaei<sup>3</sup>, J. T. Bryan-Kim<sup>1</sup>, J. A. Yang<sup>4</sup>, Y. Suzuki<sup>5,1</sup>, Y. Lee<sup>5,2</sup>, W. Tsai<sup>1</sup>, E. Pop<sup>4,1</sup>, S. X. Wang<sup>1,4</sup>

<sup>1</sup>Department of Materials Science and Engineering, Stanford University, Stanford, California, United States, <sup>2</sup>SLAC National Accelerator Laboratory, Stanford University, Stanford, California, United States, <sup>3</sup>Department of Physics, Stanford University, Stanford, California, United States, <sup>4</sup>Department of Electrical Engineering, Stanford University, Stanford, California, United States, <sup>5</sup>Department of Applied Physics, Stanford University, Stanford, California, United States

**02:12 PM-02:24 PM**

### **HE-05. Growth and properties of NiCo<sub>2</sub>O<sub>4</sub> films on MgAl<sub>2</sub>O<sub>4</sub>/Si(001): Relationship of the magnetic properties with structural strain and defects**

S. Sugiyama<sup>1</sup>, M. Tanaka<sup>1,2,3</sup>, R. Nakane<sup>1,2,4</sup>

<sup>1</sup>Department of Electrical Engineering and Information Systems, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, <sup>2</sup>Center for Spintronics Research Network (CSRN), The University of Tokyo, Bunkyo-ku, Tokyo, Japan, <sup>3</sup>Institute for Nano Quantum Information Electronics, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, <sup>4</sup>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<sup>1,2,3</sup>, J. Ledieu<sup>1,2,3</sup>, M. Emo<sup>1,2,3</sup>, S. Migot<sup>1,2,3</sup>, S. Semsari Parapari<sup>4</sup>, S. Sturm<sup>4</sup>, P. Kozelj<sup>4</sup>, V. Fournée<sup>1,2,3</sup>

<sup>1</sup>Institut Jean Lamour, Nancy, France, <sup>2</sup>Université de Lorraine, Nancy, France, <sup>3</sup>CNRS, Nancy, France, <sup>4</sup>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<sup>1</sup>, K. Abe<sup>1</sup>, S. Isogami<sup>2</sup>, M. Ohtake<sup>1</sup>

<sup>1</sup>Yokohama National University, Yokohama, Japan, <sup>2</sup>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<sup>2</sup>, S. Yochelis<sup>1</sup>, Y. Paltiel<sup>1</sup>

<sup>1</sup>*Institute of Applied Physics, Hebrew University, Jerusalem, Israel*, <sup>2</sup>*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<sup>1</sup>, A. Khadiev<sup>2</sup>, I. Carlomagno<sup>3</sup>, A. Tiwari<sup>4</sup>, s. K. Vayalil<sup>2</sup>, D. Novikov<sup>2</sup>, C. Meneghini<sup>5</sup>, A. Gupta<sup>1</sup>

<sup>1</sup>*Department of Physics, University of Petroleum and Energy Studies, Bidholi Campus, Dehradun, India*, <sup>2</sup>*Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany*, <sup>3</sup>*Elettra Sincrotrone Trieste, Basovizza, Trieste, Italy*, <sup>4</sup>*UV Focus Group, Enschede, Netherlands*, <sup>5</sup>*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<sup>1,2</sup>, J. Incorvia<sup>1,2</sup>

<sup>1</sup>*Chandra Dept. of Electrical and Computer Engineering, University of Texas at Austin, Austin, Texas, United States*, <sup>2</sup>*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<sup>1,2</sup>, Y. Kawaguchi<sup>2,3</sup>

<sup>1</sup>*Institute for Materials Research, Tohoku University, Sendai, Japan*, <sup>2</sup>*Department of Applied Physics, Nagoya University, Nagoya, Japan*, <sup>3</sup>*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<sup>1</sup>, J. Sunny<sup>2</sup>, T. Karaman<sup>2</sup>, R. Peremadathil-Pradeep<sup>3</sup>, E. Darwin<sup>3</sup>, F. Buettner<sup>2</sup>, D. Suess<sup>4</sup>, H. J. Hug<sup>3</sup>, M. Albrecht<sup>2</sup>

<sup>1</sup>*TU Wien, Vienna, Austria*, <sup>2</sup>*Uni Augsburg, Augsburg, Germany*, <sup>3</sup>*EMPA, Zurich, Switzerland*, <sup>4</sup>*Uni Wien, Vienna, Austria*

**03:12 PM-03:24 PM**

**HF-06. Unwinding Skyrmions in Three Dimensions Through Vortices and Monopoles**

M. Henderson<sup>1</sup>, D. Kurebayashi<sup>2</sup>, B. Heacock<sup>3</sup>, W. Chen<sup>3</sup>, C. Clark<sup>3</sup>, D. Cory<sup>4</sup>, D. Sarenac<sup>5</sup>, S. Watson<sup>3</sup>, J. S. White<sup>6</sup>, L. DeBeer-Schmitt<sup>1</sup>, O. Tretiakov<sup>2</sup>, D. Pushin<sup>7</sup>

<sup>1</sup>Neutron Scattering Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, <sup>2</sup>Physics, University of New South Wales, Sydney, New South Wales, Australia, <sup>3</sup>Center for Neutron Research, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, <sup>4</sup>Chemistry, University of Waterloo, Waterloo, Ontario, Canada, <sup>5</sup>Physics, University at Buffalo, Buffalo, New York, United States, <sup>6</sup>Center for Neutron and Muon Sciences, Paul Scherrer Institute, Villigen, Aargau, Switzerland, <sup>7</sup>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<sup>1,2</sup>, M. Bhukta<sup>2</sup>, K. Leutner<sup>2</sup>, M. Syskaki<sup>2</sup>, F. Kammerbauer<sup>2</sup>, D. Tran<sup>2</sup>, S. Wintz<sup>3,4</sup>, M. Weigand<sup>3,4</sup>, R. Frömter<sup>2</sup>, M. Kläui<sup>2</sup>

<sup>1</sup>Research Institute of Electrical Communication (RIEC), Tohoku University, Sendai, Miyagi, Japan, <sup>2</sup>Institut für Physik, Johannes Gutenberg-Universität Mainz, Mainz, Germany, <sup>3</sup>Max Planck Institute for Intelligent Systems, Stuttgart, Germany, <sup>4</sup>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)]<sub>15</sub> Multilayered structures**

M. Kang<sup>1,2</sup>, H. Han<sup>3</sup>, M. Im<sup>1</sup>, K. Lee<sup>2</sup>

<sup>1</sup>Center for X-ray Optics, Lawrence Berkeley National Laboratory, Berkeley, California, United States, <sup>2</sup>Ulsan National Institute of Science and Technology, Ulsan, Korea (the Republic of), <sup>3</sup>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<sup>1</sup>, R. Tomasello<sup>2</sup>, R. Peremadathil-Pradeep<sup>1,3</sup>, M. Carpentieri<sup>2</sup>, G. Finocchio<sup>4</sup>, H. J. Hug<sup>1,3</sup>

<sup>1</sup>Empa, Dübendorf, Switzerland, <sup>2</sup>Politecnico di Bari, Bari, Italy, <sup>3</sup>University of Basel, Basel, Switzerland, <sup>4</sup>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<sup>1,2</sup>, E. Darwin<sup>1</sup>, D. Rothhardt<sup>1,2</sup>, R. Peremadathil-Pradeep<sup>1,2</sup>, L. Berchialla<sup>3,4</sup>, A. Hrabec<sup>4</sup>

<sup>1</sup>Magnetic and Functional Thin Films, Empa, Dübendorf, Switzerland, <sup>2</sup>Department of Physics, University of Basel, Basel, Switzerland, <sup>3</sup>Empa, Dübendorf, Switzerland, <sup>4</sup>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<sup>1</sup>, K. Moon<sup>1</sup>, T. Ju<sup>1,2</sup>, J. Son<sup>1</sup>, T. Kim<sup>3</sup>, Y. Jeong<sup>3</sup>, B. Park<sup>4</sup>, S. Park<sup>2</sup>, C. Hwang<sup>1</sup>

<sup>1</sup>Quantum Technology Institute, Korea Research Institute of Standards and Science, Daejeon, Korea (the Republic of), <sup>2</sup>Department of Physics, Pusan National University, Busan, Korea (the Republic of), <sup>3</sup>Center for Neuromorphic Engineering, Korea Institute of Science and Technology, Seoul, Korea (the Republic of), <sup>4</sup>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<sup>1</sup>, T. da Câmara Santa Clara Gomes<sup>2</sup>, N. Reyren<sup>4</sup>, J. Gartside<sup>3</sup>, M. Mivelle<sup>5</sup>

<sup>1</sup>Dalian University of Technology, Dalian, China, <sup>2</sup>Instituto de Engenharia de Sistemas E Computadores – Microsistemas e Nanotecnologias, Lisbon, Portugal, <sup>3</sup>Imperial College of London, London, United Kingdom, <sup>4</sup>Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, CNRS, Paris, France, <sup>5</sup>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<sup>1</sup>, N. Liyanage<sup>2</sup>, M. A. Maben<sup>1</sup>, M. Henderson<sup>3</sup>, L. DeBeer-Schmitt<sup>3</sup>, D. A. Gilbert<sup>1,2</sup>

<sup>1</sup>Materials Science and Engineering, University of Tennessee, Knoxville, Tennessee, United States, <sup>2</sup>Physics and Astronomy, University of Tennessee, Knoxville, Tennessee, United States, <sup>3</sup>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<sup>1,4</sup>, A. Chaurasiya<sup>1</sup>, A. Kumar<sup>1,2,3</sup>, L. Bainsla<sup>1,5</sup>, A. Litvinenko<sup>1,6</sup>, R. Khymyn<sup>1</sup>, A. A. Awad<sup>1,2,3</sup>, J. Akerman<sup>1,2,3</sup>

<sup>1</sup>Department of Physics, University of Gothenburg, Gothenburg, Sweden, <sup>2</sup>Research Institute of Electrical Communication, Tohoku University, Sendai, Japan, <sup>3</sup>Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan, <sup>4</sup>School of Basic Sciences, Indian Institute of Technology Bhubaneswar, Jatani, India, <sup>5</sup>Department of Physics, Indian Institute of Technology Ropar, Rupnagar, India, <sup>6</sup>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<sup>1</sup>, H. A. Bukhari<sup>1</sup>, C. Patrickson<sup>2</sup>, M. Garman<sup>2</sup>, P. S. Keatley<sup>2</sup>, I. Luxmoore<sup>2</sup>, D. R. Candido<sup>1</sup>

<sup>1</sup>Physics and Astronomy, University of Iowa, Iowa City, Iowa, United States, <sup>2</sup>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<sup>1</sup>, T. Chiba<sup>2</sup>, T. Komine<sup>1</sup>

<sup>1</sup>Ibaraki University, Hitachi, Ibaraki-ken, Japan, <sup>2</sup>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<sup>1,2</sup>, S. Miwa<sup>3</sup>, H. Matsueda<sup>1</sup>, T. Chiba<sup>2,1</sup>

<sup>1</sup>Applied Physics, Tohoku University, Sendai, Japan, <sup>2</sup>Information Science and Technology, Yamagata University, Yonezawa, Japan,

<sup>3</sup>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<sup>2</sup>, P. Radhakrishnan<sup>2</sup>, E. Savostin<sup>1,3</sup>, Z. Zhang<sup>4</sup>, E. Gong<sup>4</sup>, A. Hoffmann<sup>4</sup>, V. Lomakin<sup>1,5,3</sup>, A. D. Kent<sup>2</sup>

<sup>1</sup>Center for Memory and Recording Research, University of California, San Diego, La Jolla, California, United States, <sup>2</sup>Center for Quantum Phenomena, Department of Physics, New York University, New York, New York, United States, <sup>3</sup>Program in Materials Science and Engineering, University of California, San Diego, La Jolla, California, United States, <sup>4</sup>Materials Research Laboratory and Department of Materials Science and Engineering, The Grainger College of Engineering, University of Illinois Urbana-Champaign, Champaign, Illinois, United States, <sup>5</sup>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  $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$  thin films**

R. Arakawa<sup>1</sup>, S. Komori<sup>2</sup>, T. Taniyama<sup>1</sup>

<sup>1</sup>Department of Physics, Nagoya University, Nagoya, Aichi, Japan, <sup>2</sup>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<sup>1,2</sup>, A. Schümer<sup>3</sup>, L. Hackner<sup>1,2</sup>, J. Longdell<sup>1,2</sup>, S. Rotter<sup>3</sup>, H. Schwefel<sup>1,2</sup>

<sup>1</sup>University of Otago, Dunedin, Otago, New Zealand, <sup>2</sup>The Dodd-Walls Centre for Photonic and Quantum Technologies, Dunedin, Otago, New Zealand, <sup>3</sup>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<sup>1,2</sup>, C. Heins<sup>1,2</sup>, T. Devolder<sup>3</sup>, F. Kammerbauer<sup>4</sup>, M. Kläui<sup>4</sup>, J. Fassbender<sup>1,2</sup>, H. Schultheiss<sup>1</sup>, K. Schultheiss<sup>1</sup>

<sup>1</sup>Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany, <sup>2</sup>Technische Universität Dresden, Dresden, Germany, <sup>3</sup>Centre de Nanosciences et de Nanotechnologies, CNRS, Université Paris-Saclay, Paris, France, <sup>4</sup>Institute of Physics, Johannes Gutenberg University Mainz, Mainz, Germany

**05:15 PM-05:27 PM**

**HG-11. Perspectives on inverse-design magnonics**

E. Vilsmeier, F. Brückner, 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<sup>1</sup>, S. Kim<sup>1</sup>, Y. Yoon<sup>1</sup>, H. Yu<sup>1</sup>, S. Yoon<sup>1</sup>, K. Shin<sup>2</sup>, J. Choi<sup>1</sup>

<sup>1</sup>*Chungnam National University, Daejeon, Korea (the Republic of)*, <sup>2</sup>*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<sup>1</sup>, S. Kim<sup>1</sup>, S. Woo<sup>1</sup>, J. Park<sup>2</sup>, J. Choi<sup>2</sup>, K. Shin<sup>1</sup>

<sup>1</sup>*Changwon National University, Changwon, Korea (the Republic of)*, <sup>2</sup>*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<sup>1</sup>, M. Kim<sup>1</sup>, M. Seo<sup>1</sup>, H. Lee<sup>1</sup>, K. Yu<sup>2</sup>, J. Choi<sup>2</sup>, K. Shin<sup>3</sup>

<sup>1</sup>*Department of Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of)*, <sup>2</sup>*Department of Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of)*, <sup>3</sup>*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<sup>1</sup>, M. Kim<sup>1</sup>, W. Lee<sup>1</sup>, H. Lee<sup>1</sup>, K. Yu<sup>2</sup>, J. Choi<sup>2</sup>, K. Shin<sup>3</sup>

<sup>1</sup>*Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of)*, <sup>2</sup>*Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of)*, <sup>3</sup>*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<sup>1</sup>, G. Lee<sup>1</sup>, M. Kim<sup>1</sup>, S. Kim<sup>2</sup>, J. Choi<sup>2</sup>, K. Shin<sup>1</sup>

<sup>1</sup>*Changwon National University, Changwon, Korea (the Republic of)*, <sup>2</sup>*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<sup>1</sup>, S. Kim<sup>1</sup>, M. Kim<sup>1</sup>, J. Park<sup>3</sup>, K. Shin<sup>2</sup>, J. Choi<sup>3</sup>

<sup>1</sup>*Smart Manufacturing Engineering, Changwon National University, Changwon, Korea (the Republic of)*, <sup>2</sup>*AI Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)*, <sup>3</sup>*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<sup>1,2</sup>, S. Gupta<sup>2,1</sup>, R. Kumar<sup>2,1</sup>

<sup>1</sup>SEAS, Bennett University, Greater Noida, Uttar Pradesh, India, <sup>2</sup>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<sup>1,2</sup>, X. Jiang<sup>1,2</sup>, Y. Yao<sup>1,2</sup>, C. Lee<sup>1,2</sup>, T. Wu<sup>1,2</sup>

<sup>1</sup>Graduate School of Materials Science, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan, <sup>2</sup>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]<sub>n</sub> Superconductor Without Inversion Symmetry

S. Hirata<sup>1</sup>, R. Kawarazaki<sup>2</sup>, R. Iijima<sup>1</sup>, F. Tokoro<sup>1</sup>, T. Mandokoro<sup>1</sup>, H. Matsuki<sup>1,3</sup>, R. Hisatomi<sup>1,3</sup>, S. Karube<sup>1,3</sup>, Y. Shiota<sup>1,3</sup>, T. Ono<sup>1,3,4</sup>

<sup>1</sup>Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan, <sup>2</sup>Research Institute of Electrical Communication, Tohoku University, Sendai, Miyagi, Japan, <sup>3</sup>Center for Spintronics Research Network, Kyoto University, Uji, Kyoto, Japan, <sup>4</sup>International Center for Synchrotron Radiation Innovation Smart, Tohoku University, Sendai, Miyagi, Japan

## HQ-06. Extrinsic Altermagnetic Spin-Splitting Torque in RuO<sub>2</sub> (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<sub>2</sub> 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<sup>1</sup>, S. Lee<sup>2</sup>, K. Lee<sup>1</sup>

<sup>1</sup>Yonsei University, Seoul, Korea (the Republic of), <sup>2</sup>Kongju University, Cheonan, Korea (the Republic of)

## HQ-10LB. Ferroelectric switchable altermagnetic-like compensated ferrimagnets with charge ordering

X. Yang

Southeast University, Nanjing, JIANGSU, China

## HQ-11. Interface engineering in Co/Tb/Co synthetic ferrimagnets to host room temperature skyrmions

R. Kaur<sup>1</sup>, S. Gajrao<sup>1</sup>, A. Halder<sup>2</sup>, C. Murapaka<sup>1</sup>

<sup>1</sup>Materials Science and Metallurgical Engineering, Indian Institute of Technology Hyderabad, Hyderabad, Telangana, India, <sup>2</sup>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<sup>3</sup>, I. P. Cools<sup>2</sup>, L. Yan<sup>1</sup>, J. Xu<sup>1</sup>, D. P. Dubey<sup>2</sup>, S. P. Dash<sup>2</sup>

<sup>1</sup>Graduate School of Information Science and Electrical Engineering, Kyushu University, Fukuoka, Japan, <sup>2</sup>Chalmers University of Technology, Gothenburg, Sweden, <sup>3</sup>Faculty of Information Science and Electrical Engineering, Kyushu University, Fukuoka, Japan

## HQ-13. Spin transport in a van der Waals triangular lattice antiferromagnet NiGa<sub>2</sub>S<sub>4</sub> as a candidate for Z<sub>2</sub>-vortex ordering

Y. Yamaguchi<sup>1</sup>, N. Jiang<sup>1,6,7</sup>, D. Takafuji<sup>1</sup>, K. Ueda<sup>1,6,7</sup>, J. Matsuno<sup>1,6,7</sup>, T. Kikkawa<sup>2</sup>, Y. Nambu<sup>3</sup>, K. Aoyama<sup>5</sup>, H. Kawamura<sup>4</sup>, Y. Niimi<sup>1,6,7</sup>

<sup>1</sup>Department of Physics, The University of Osaka, Toyonaka, Osaka, Japan, <sup>2</sup>Advanced Science Research Center, Japan Atomic Energy Agency, Tokai, Japan, <sup>3</sup>Institute for Integrated Radiation and Nuclear Science, Kyoto University, Kyoto, Japan, <sup>4</sup>Center for Life Photonic Innovation, Kobe University, Kobe, Japan, <sup>5</sup>Graduate School of Advanced Science and Engineering, Hiroshima University, Hiroshima, Japan, <sup>6</sup>Center for Spintronics Research Network, The University of Osaka, Toyonaka, Japan, <sup>7</sup>Institute for Open and Transdisciplinary Research Initiatives, The University of Osaka, Osaka, Japan

## HQ-14. Evaluation of Magnetic Properties of Mn<sub>4-x</sub>Pd<sub>x</sub>N Epitaxial Thin Films and Demonstration of Magnetization Compensation at Room Temperature

S. Akita<sup>1</sup>, T. Yasuda<sup>1</sup>, K. Amemiya<sup>2</sup>, T. Suemasu<sup>1</sup>

<sup>1</sup>University of Tsukuba, Tsukuba, Japan, <sup>2</sup>High Energy Accelerator Research Organization (KEK), Tsukuba, Japan

## HQ-15. Three-Dimensional Spin Transport in $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> (0001)/TaIrTe<sub>4</sub> Heterostructures

J. Chen<sup>1</sup>, H. Liu<sup>1</sup>, W. Tan<sup>1</sup>, T. Qian<sup>2</sup>, W. Liao<sup>1</sup>, T. Wang<sup>3</sup>, I. K. Schuller<sup>3</sup>, N. Ni<sup>2</sup>, J. Shi<sup>1</sup>

<sup>1</sup>Department of Physics and Astronomy, University of California, Riverside, Riverside, California, United States, <sup>2</sup>Department of Physics and Astronomy, University of California, Los Angeles, Los Angeles, California, United States, <sup>3</sup>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<sup>1</sup>, S. Konakanchi<sup>1</sup>, J. Kang<sup>2</sup>, M. Hamdi<sup>3</sup>, P. Khalili Amiri<sup>2</sup>, P. Upadhyaya<sup>1</sup>

<sup>1</sup>Electrical and Computer Engineering, Purdue University, West Lafayette, Indiana, United States, <sup>2</sup>Electrical and Computer Engineering, Northwestern University, Evanston, Illinois, United States, <sup>3</sup>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 GdMnO<sub>3</sub> Single Crystals

M. Ashraf<sup>1</sup>, Z. Molčanová<sup>2</sup>, M. Mihalik<sup>1</sup>, J. Pospíšil<sup>3</sup>

<sup>1</sup>Department of Magnetism, Institute of Experimental Physics SAS, Kosice, Slovakia, <sup>2</sup>Institute of Materials Research, SAS, Kosice, Slovakia, <sup>3</sup>Faculty of Mathematics and Physics, Charles University, Prague, Czechia

### HR-02. Growth and Magneto-Optical properties of CeF<sub>3</sub> 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<sup>1,2</sup>, K. Fujiwara<sup>1</sup>, T. Watanabe<sup>3</sup>, E. Negishi<sup>3</sup>, D. Shabaev<sup>1,2</sup>, K. Ishiyama<sup>1</sup>, T. Goto<sup>1</sup>

<sup>1</sup>Research Institute of Electrical Communication, Tohoku University, Sendai, Miyagi, Japan, <sup>2</sup>Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan, <sup>3</sup>Shin-Etsu Chemical Co., Ltd., Annaka, Gunma, Japan

### HR-04. Multiscale theoretical prediction of enhanced magnetocaloric performance in Fe<sub>2</sub>P-type alloys

M. Adiya<sup>1</sup>, B. Narangerel<sup>1</sup>, O. Tumentsereg<sup>1</sup>, K. Jong-Woo<sup>2</sup>, O. Dorj<sup>1</sup>

<sup>1</sup>Department of Physics, Incheon National University, Incheon, Korea (the Republic of), <sup>2</sup>Korea Institute of Material Science, Changwon, Korea (the Republic of)

### HR-05. Microscopic Origins of Magnetostriction Enhancement in Boron-Doped Fe<sub>80</sub>Ga<sub>20</sub> Thin Films

Z. Zhang<sup>1</sup>, H. Ni<sup>1,2</sup>, M. Lim<sup>1</sup>, J. Lim<sup>1</sup>, J. Zuo<sup>1,3</sup>, A. Schleife<sup>1</sup>, A. Hoffmann<sup>1</sup>

<sup>1</sup>Department of Materials Science and Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, United States, <sup>2</sup>Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, <sup>3</sup>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<sup>2,1</sup>, Z. He<sup>2,1</sup>, S. Hu<sup>2,1</sup>, Y. Sha<sup>3</sup>, L. Chen<sup>2,1</sup>, L. Zuo<sup>3</sup>

<sup>1</sup>Shenyang Key Laboratory of Advanced Structural Materials and Applications, Shenyang University of Technology, Shenyang, China, Shenyang, Liaoning Province, China, <sup>2</sup>School of Materials Science and Engineering, Shenyang University of Technology, Shenyang, China, Shenyang, Liaoning Province, China, <sup>3</sup>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<sub>2</sub>In: A Giant Cryogenic Magnetocaloric Material

A. Kumar<sup>4</sup>, A. Biswas<sup>4</sup>, T. A. Tyson<sup>1</sup>, D. Haskel<sup>2</sup>, C. J. Pollock<sup>3</sup>, Y. Mudryk<sup>4</sup>

<sup>1</sup>Department of Physics, New Jersey Institute of Technology, Newark, New Jersey, United States, <sup>2</sup>Advanced Photon Source, Argonne National Laboratory, Lemont, Illinois, United States, <sup>3</sup>Cornell High Energy Synchrotron Source, Wilson Laboratory, Cornell University, Ithaca, New York, United States, <sup>4</sup>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<sup>1,2,3</sup>, Z. He<sup>1,2</sup>, H. Hao<sup>3</sup>, J. Liu<sup>1,2</sup>, T. Yao<sup>3</sup>, X. Zhu<sup>4</sup>, L. Chen<sup>1,2</sup>

<sup>1</sup>School of Materials Science and Engineering, Shenyang University of Technology, Shenyang, Liaoning, China, <sup>2</sup>Shenyang Key Laboratory of Advanced Structural Materials and Applications, Shenyang, Liaoning, China, <sup>3</sup>State Key Laboratory of Baiyunobo Rare Earth Resource Researches and Comprehensive Utilization, Baotou Research Institute of Rare Earths, Baotou, Inner Mongolia, China, <sup>4</sup>Institute of Metal Research, Chinese Academy of Sciences, Shenyang, Liaoning, China

## HR-11. Structural and magnetic properties of Ti doped Ni<sub>2.3</sub>Mn<sub>0.7</sub> Ga Heusler Alloy

T. F. McKenzie<sup>1</sup>, K. N. Ndaru<sup>1</sup>, R. Chapai<sup>2</sup>, M. Khan<sup>1</sup>

<sup>1</sup>Physics, Miami University, Oxford, Ohio, United States, <sup>2</sup>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<sup>1</sup>, P. Ari-gur<sup>1</sup>, S. Jabran<sup>1</sup>, R. D. Noebe<sup>2</sup>, I. Felner<sup>3</sup>, S. Kaczmarek<sup>1</sup>, A. S. Madiligama<sup>4</sup>

<sup>1</sup>Mechanical and Aerospace Engineering, Western Michigan University, Kalamazoo, Michigan, United States, <sup>2</sup>NASA Glenn Research Center, Cleveland, Ohio, United States, <sup>3</sup>Hebrew University, Jerusalem, Israel, <sup>4</sup>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<sup>2</sup>, P. Ari-gur<sup>2</sup>, R. D. Noebe<sup>3</sup>, A. S. Madiligama<sup>1</sup>

<sup>1</sup>Science/Physics, Pennsylvania State University, DuBois, Pennsylvania, United States, <sup>2</sup>Mechanical and Aerospace Engineering, Western Michigan University, Kalamazoo, Michigan, United States, <sup>3</sup>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<sup>0</sup>/d<sup>10</sup> B'-Site Doping Enables Magnetic and Magnetocaloric Tuning in Gadolinium Double Perovskites

F. Berardi<sup>1</sup>, J. M. Steele<sup>1</sup>, H. E. Fischer<sup>2</sup>, S. E. Dutton<sup>1</sup>

<sup>1</sup>Department of Physics - Cavendish Laboratory, University of Cambridge, Cambridge, United Kingdom, <sup>2</sup>Institut Laue-Langevin, Grenoble, France

**HR-18LB. Magnetic and Optical Properties of  $[\text{Cu}_3(\text{vanox})_2(\text{NO}_3)_2]$  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<sup>1</sup>, D. Kubaniova<sup>1</sup>, M. Rames<sup>1</sup>, T. Kmjec<sup>2</sup>, V. Chlan<sup>2</sup>

<sup>1</sup>FZU - Institute of Physics, Prague, Czechia, <sup>2</sup>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)*

., 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  
Abelmann, L: ER-16  
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**  
Afanasyev, D: AR-13LB  
Afanasyev, D: CH-03  
Afko, L: **FA-06**  
Afsari, T: CD-10  
Agarwal, S: DA-06  
Aguilera, I: BC-02, FE-04  
Ahmad, H: **FQ-12**  
Ahmad, S: FF-08  
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**  
Alaci, 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  
Aliev, F: BP-04  
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**  
Ashour, O: GC-11  
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  
 Basnet, R: CC-03  
 Bastien, G: GB-07  
 Bastos, D: GR-11  
 Batista, C D.: GB-08  
 Bauer, G: FB-01  
 Baumann, S: AR-02  
 Baumbach, R E.: CC-11  
 Bayarara, T: **BC-12**, CB-05  
 Béa, H: CE-01, DE-04  
 Beach, G: CF-06, GF-04  
 Becherer, M: AR-12, BR-13, DG-05, DG-06, GP-06  
 Beckert, S: DB-09  
 Beckham, J: CD-09  
 Beeson, W: GD-12  
 Begue, A: CR-07, **CR-11**, FD-05  
 Behera, N: HG-01  
 Belashchenko, K: CF-13, **EF-07**  
 Belbase, B: AR-06  
 Belli, M: GF-09  
 Bellini, A: **BE-08**  
 Belo, J H.: EB-06, GR-11  
 Ben Mbarek, S: **BE-12**  
 Bennett, C H.: DA-06  
 Bennett, S P.: BD-12  
 Bentley, P D.: FF-12  
 Berardi, F: **HR-17LB**  
 Berchialla, L: HF-10  
 Berger, F: BA-07  
 Berlie, A: FE-09  
 Bernal, O: CS-04, FP-05

Bernand-Mantel, A: GP-09  
 Béron, F: **CP-10**, **FC-08**, GE-09  
 Bertacco, R: AR-12, CR-07, DG-02, DG-03, DG-06, EG-11  
 Bertel Bermejo, L: FC-11  
 Bertero, G: BD-06  
 Betancourt, I: CP-05  
 Betz, N: AR-02  
 Beutier, G: AE-07, CB-09, GP-09  
 Bezdička, P: CP-16  
 Bezsmertna, O: AD-02, CB-05  
 Bhagat, N: FR-01  
 Bhattacharya, A: GP-11  
 Bhattacharya, D: AD-02, AD-03  
 Bhoi, B: GG-03, HG-07  
 Bhukta, M: HF-07, HF-14  
 Bi, L: **BG-03**  
 Bianchini, C: BE-08  
 Bicket, I C.: AE-05  
 Bielicki, A: GC-03  
 Bilyk, V: CS-13LB  
 Binnie, I: CB-08  
 Birch, M: DB-02  
 Birol, T: DC-06, EE-03  
 Bishop, S R.: DD-11  
 Biswas, A: **FP-14**, **GP-11**, **HR-09**  
 Biswas, S: EG-03  
 Bittar, E: FE-05  
 Blon, T: CC-10  
 Blum, V: BD-05  
 Blumenschein, N: BD-12, DA-04  
 Bo, L: **HF-04**  
 Bodnar, S: **BE-03**  
 Bogach, A: DF-03  
 Böhm, D: CP-05  
 Boisson, O: CS-03, FP-13  
 Boissiere, J D.: DD-11  
 Bolyachkin, A: AA-06, AB-08, BD-03, **EC-05**  
 Bonanni, A: BC-01  
 Bondan, E: CD-03  
 Bono, D: CD-09  
 Booth, J: FA-06  
 Borchers, J: DC-03, DC-08, EF-12  
 Borgnic, B: AE-07  
 Borodavka, F: AC-05  
 Bosomtwi, D: **DD-11**  
 Boswell, S: CD-04  
 Bouaziz, J: FE-10  
 Boujday, S: AF-07  
 Boulet, P: EB-07  
 Bourez, A: BD-06  
 Bouzehouane, K: GR-07  
 Boyce, G: DS-14LB  
 Boyd, N: BP-05LB  
 Bozhko, A: DF-03  
 Bozhko, D A.: FB-02  
 Brady, S G.: FC-05

Braganca, P M.: BA-04  
 Branford, W R.: GC-05  
 Braun, H: **AD-07**  
 Brázda, P: CP-16  
 Brems, M A.: HF-14  
 Brennan-Rich, C: FG-10  
 Brereton, B: DR-02  
 Brock, S: FP-15  
 Brockie, R: BD-01, BD-06  
 Brollo, M: **EQ-04**  
 Brück, E: EE-08  
 Bruckner, F: CE-07, DH-08, ED-07, FG-04, HG-11  
 Brunin, C: CD-05  
 Bruno, N M.: FA-03  
 Bryan-Kim, J T.: HE-03  
 Buchanan, C C.: FC-05, **HF-13**  
 Buchanan, K: DG-04  
 Buda-Prejbeanu, L D.: CA-09, GC-09  
 Buettner, F: HF-05  
 Bugnet, M: FP-13  
 Buhrow, G: **FQ-01**  
 Bukhari, H A.: HG-02  
 Burman, T: **CE-12**  
 Burn, D M.: AG-03  
 Burnell, G: DR-02  
 Busmann, K: HR-15  
 Byeon, J: BC-04, BC-09, BP-10, FR-07, **FR-08**  
 Byun, S: DQ-16

**C**  
 Caban-Chastas, D: DD-07, FA-09  
 Cabassi, R: BA-03  
 Caçoilo, N: BP-02  
 Cahill, D: GR-04  
 Cai, P: **CC-03**  
 Cai, Z: BE-09  
 Calimbis, J: EQ-03  
 Callahan-Coray, K: BF-02  
 Calle, F: DH-10  
 Camley, R E.: GG-06  
 Campo, J: **EE-02**, **FE-03**, **GB-06**  
 Campos, W: DB-09  
 Camsari, K: BF-02  
 Cancino, N: HA-04  
 Candido, D R.: **HB-02**, HG-02  
 Canero-Infante, I: FP-13  
 Cantoni, M: DA-03, FG-08  
 Cao, H: GB-08  
 Cao, S: AF-11  
 Cao Van, P: BR-05, BR-11, FF-10  
 Capotondi, F: GC-07  
 Carlisle, E: DB-08  
 Carlomagno, I: HE-11  
 Carlstedt, N: **FC-10**  
 Carneiro, F: FE-05

- Carpenter, R: AG-10, CA-03, FD-03, FD-07
- Carpentieri, M: CA-07, HF-09
- Caruana, A: DC-03, DC-08, EF-12
- Carva, K: **BB-02**
- Casa, D: GR-19LB
- Casanova, F: DB-09
- Caseiro, M: CE-01, DE-04
- Casoli, F: BA-03
- Caspani, S: CD-01
- Cating-Subramanian, E: CB-08
- Cattoni, A: DG-03
- Causser, G: AE-11, **FE-02**
- Cecil, T W.: CE-05, EG-13
- Cecot, M: AG-08
- Celegato, F: AD-12, DC-04
- Ceylan, H: FC-13
- Cha, H: AP-04
- Chaillolleau, P: AF-04, **CH-07**
- Chakhalian, J: HC-11
- Chalmers, J: AE-04, BA-02, GR-06
- Chan, F: AC-09
- Chandavar, R A.: EB-01
- Chandran, S: AC-03, AC-04, GP-12
- Chang, C: HE-08
- Chang, C: FF-01
- Chang, C: EQ-02
- Chang, C L.: FB-02
- Chang, J: **BD-07**, BD-10
- Chang, J: GQ-15
- Chang, P: BR-16LB
- Chang, W: FD-10
- Chanwook, P: ER-07
- Chao, W: CC-09
- Chapai, R: CP-08, HR-11
- Chari, S: **FG-09**
- Charlton, T: DC-03
- Chatratin, I: BD-05
- Chatterjee, J: CA-03, FD-03
- Chatterjee, R: FQ-06
- Chatterjee, S: GP-01
- Chauhan, A S.: CR-12
- Chaurasiya, A: HG-01
- Chavan, A: BE-02
- Che, P: **DH-11**
- Chelikowsky, J: **AB-01**
- Chen, C: DA-05
- Chen, C: BF-07, FP-06
- Chen, C: EQ-11
- Chen, C: BP-04
- Chen, D: **FD-11**
- Chen, H: EB-08
- Chen, H: EQ-02
- Chen, H: **AC-08**
- Chen, H: HA-07
- Chen, J: **HQ-15**
- Chen, J: EA-06
- Chen, J: BF-06, **EG-02**
- Chen, J: BB-06
- Chen, K: BA-02
- Chen, L: HR-06, HR-10
- Chen, L: AG-09
- Chen, L: CH-02
- Chen, R: **BC-07**
- Chen, S: GB-08
- Chen, S: HA-07
- Chen, W: HF-06
- Chen, W: BR-16LB, FR-19LB
- Chen, X: BC-06
- Chen, Y: BP-15
- Chen, Y: CG-05
- Chen, Y: EQ-11
- Chen, Y: BP-04
- Chen, Y: BF-07
- Chen, Y: EG-08
- Chen, Z: GG-02
- Chen, Z: EA-08
- Chen, Z: **DC-08**, EF-12, GF-08
- Cheng, R: AF-09, **EF-01**
- Cheng, S: **FR-19LB**
- Cheng, T C.: HF-01
- Cheon, S: DR-11
- Chern, G: **BR-17LB**
- Chernenko, V: EB-05
- Chesnel, K: CS-14LB, **GR-17LB**
- Cheung, S: BF-04, CA-07
- Chhabra, H: **FD-06**
- Chhetri, S: CC-03
- Chi, B: GQ-01
- Chi, H: GF-03
- Chi, J: DS-06
- Chiang, B H.: FD-11
- Chiba, D: EG-03
- Chiba, T: GF-07, HG-03, HG-04
- Chiliquinga-Jacome, J J.: CB-09
- Chin, A N.: **EA-05**
- Chin, Y: BF-07, **FP-06**
- Chinnasamy, C: AP-12LB
- Chinnathambi, K: FA-03
- Chiriach, H: EP-04, ER-08
- Chisum, J: CE-08
- Chiu, H: GR-18LB
- Chiu, P: HA-07
- Chlan, V: DC-07, FQ-10, GE-07, HR-19LB
- Chlan, V: CP-16
- Cho, H: DQ-16, EQ-10
- Cho, J: DS-07
- Cho, J: DS-07
- Cho, Y: DD-02
- Choe, S: BB-08, BR-08, DS-09, DS-10, GQ-15, GQ-16, HQ-04
- Choi, C W.: BQ-11, BQ-12, CQ-16, **HP-04**
- Choi, D: **HP-15**, **HP-16**
- Choi, G: BB-03, GC-04
- Choi, H: **TU-01**
- Choi, H: FC-14
- Choi, J: BQ-01, BQ-02, BQ-03, BQ-06, BQ-11, BQ-12, BQ-14, CQ-02, CQ-03, CQ-05, CQ-06, CQ-07, CQ-08, CQ-11, CQ-13, CQ-14, CQ-16, DQ-01, DQ-02, DQ-06, DQ-09, HP-04, HP-06, HP-07, HP-08, HP-09, HP-10
- Choi, J: AR-06
- Choi, J: **AC-02**
- Choi, W: FF-10
- Choi, Y: GQ-15
- Choi, Y: GR-19LB
- Choi, Y T.: EQ-13
- Choi, Y: BE-05
- Choi, Y: AR-07, BC-04, BC-09, BP-10, EE-11, FR-07, FR-08
- Chong, Y: **DQ-16**, **EQ-10**
- Chou, C: **DA-07**
- Chou, H: **HB-07**
- Choudhury, S: CC-11, EF-13
- Chouhan, A: DR-14
- Chowdary, S: BR-07
- Christiansen, M: CD-09
- Chu, Y: CC-08
- Chuang, T: FR-19LB, GR-18LB
- Chugh, A: DR-04
- Chumak, A: CE-07, FB-05, FB-07, HG-11
- Chung, S: GQ-06LB
- Ciccarelli, C: AF-04, **CH-01**, **FE-11**
- Cierpial, M: AG-08
- Clark, C: HF-06
- Clark, T: XA-02
- Coates, S: BC-05, **BC-10**
- Cobas, E: AF-03
- Cocconcilli, M: AR-12, **CR-07**, DG-02, **DG-03**, DG-06, **EG-11**
- Coene, A: GR-03
- Coester, B: FD-07
- Coisson, M: AD-12, DC-04
- Collin, S: GA-02
- Colling, M: FE-10
- Colman, R H.: FE-09, **GB-07**
- Combs, N: AF-03
- Comite, A: HA-01
- Compton, L: **DG-04**
- Compton-Stewart, J: **AF-04**
- Connelly, D: **CE-08**
- Cools, I P.: HQ-12
- Cooper, J: **AE-11**
- Copus, M: ED-04
- Cordero, A M.: **CP-05**
- Cornelius, R: GR-05
- Corodeanu, S: EP-04
- Correa, C A.: FE-09, GB-07
- Correa, E L.: FC-04
- Corredor, L: EP-07, FE-04, FR-18LB

Cortie, D: HB-07  
 Cory, D: HF-06  
 Cosgrove, L: **DS-13**  
 Costa, J L.: BB-04  
 Costello, T: **FC-09**  
 Couet, S: CA-03  
 Courtois, H: AD-08  
 Courtois, T: CF-03  
 Covic, G: DE-12, DQ-15  
 Cros, V: CB-09, DH-11, GC-07  
 Cruz, A: CD-01  
 Csaba, G: BR-13, DG-02  
 Csaba, G: AR-12, DG-05, DG-06  
 Cugini, F: EB-07  
 Cui, B: **AP-02**, AP-03  
 Cui, J: AP-02, EC-08, EC-10, HD-11  
 Cunningham, C J.: FQ-16, FR-20LB  
 Czoschke, P: BD-09, FG-09

## D

da Câmara Santa Clara Gomes, T: **AD-01**, **CR-10**, HF-12  
 Dai, B: GF-03  
 Dai, C: BA-04  
 Daido, A: CF-01  
 Daimon, S: FR-02  
 Dainone, A: GA-02  
 Dal Din, A: CB-01  
 Dale, N: EF-13  
 Dang, T: FQ-10  
 Daniels, K M.: GF-11  
 Daniels, M: EA-07  
 Dannegger, T: AF-11  
 Darling, G: AB-04  
 Darwin, E: HF-05, HF-09, HF-10  
 Das, A: AG-10, FD-07  
 Das, B: EE-03  
 Das, D: **CR-06**  
 Das, I: GP-11  
 Das, S: **CF-15**  
 Das, S: HQ-08  
 Dasari, S: ER-14, ER-15  
 Dash, S P.: AG-12, BF-11, FB-09, HQ-12  
 da Silva Tavares, M: BR-15, GP-10  
 Dastanpour, E: DP-08  
 Daughton, D: AP-06  
 Daurer, B: CB-07  
 David, P: AE-07  
 Davidkova, K: FB-05  
 Davidková, K: **CE-07\***  
 Davila, N: CA-04, EA-04  
 Davis, A: FC-04  
 Davis, M: FP-16  
 De, A: **AF-05**  
 De, A: AG-11  
 DeBeer-Schmitt, L: **GF-06**, HF-06, HF-13  
 de Cos Elices, D: BA-01, DE-08

De Croo, R: GR-03  
 Dehaghani, M: CC-10  
 Delaney, R: FA-02  
 de la Torre Medina, J: AD-01  
 del Barco, E: AF-02, AF-09  
 Del Giacco, A: AR-12, DG-06  
 Della Cerra, T: FA-02  
 Deman, A: CD-05  
 Dembski-Villalta, M: AC-13  
 DeMell, J E.: **GF-11**  
 Deng, K: EF-01  
 Dennett, C: XA-02  
 Denneulin, T: BB-07, BC-01  
 Dennis, C: **FC-04**  
 Desai, P C.: AE-04  
 De Somer, C: **GR-03**  
 de Souza, H B.: EB-06  
 Detore, R: EQ-05  
 Devinenti, A: CA-07  
 DeVisscher, E D.: **BP-05LB**  
 Devolder, T: FB-04, HG-10  
 de Wergifosse, S: CR-10  
 Dhagat, P: AC-11, BR-01  
 Dhaliwal, K: **AG-03**  
 Dhiman, A K.: **BP-03**  
 Dhuey, S: CB-05  
 Diaconescu, P: GB-08  
 Diallo, S: FQ-16, FR-20LB  
 Diao, Y: CG-05  
 Diaz-Ortega, I: GB-06  
 Díaz-Sainz, G: FC-11  
 Dickovick, J: CE-06  
 Dieny, B: BA-07, CE-01, DE-04  
 Dimoulas, A: BF-11  
 Ding, S: CG-08  
 Di Pietro, A: FG-08  
 Di Pietro Martínez, M: CB-07, CB-09  
 Divan, R: CE-05, EG-13, FB-02  
 Divyanshu, D: **CR-02**, EA-09  
 Dixon-Anderson, K: GR-11  
 Dlubak, B: CR-11  
 Do, J: AR-05, BP-09  
 Do, N: CC-12  
 Docusen, D: **CS-14LB**  
 Dodrill, B: AP-06  
 Dohi, T: ED-09, **HF-07**  
 Dolan, E: DB-09  
 Dolezal, P: AC-05  
 Donahue, M J.: **FG-12**  
 Dong, D: BE-09, DE-13  
 Dong, S: FQ-15, **HC-01**  
 Donnelly, C: BE-02, CB-07  
 Dorj, O: CP-06, CP-11, CP-14, HR-04  
 dos Santos, G: XA-01  
 Douveas, I K.: CE-07  
 Dravid, V P.: CA-07  
 Drchal, V: GE-07  
 Du, A: **BB-07**, **CG-08**

Du, J H.: **GR-18LB**  
 Du, Y: HP-02  
 Duan, J: AA-06, **FG-05**  
 Duan, X: DR-05  
 Duan, Y: **BC-06**  
 Dubey, D P.: **FB-09**, HQ-12  
 Dubs, C: CE-07, FB-05  
 Duffee, C: EA-04  
 Dumas, R K.: **GR-11**  
 Dumesnil, K: **CF-02**, **CF-03**, **HE-06**  
 Dunand, D: DP-10  
 Dunin-Borkowski, R E.: BB-07, BC-01  
 Dupont, E: CD-05  
 Dupré, L: GR-03  
 Dupuis, V: CS-03, FP-13  
 Durner, C A.: FG-08  
 Durnez, A: CR-11  
 Dussa, S: **HD-10**  
 Dutta, D: BC-01  
 DuttaGupta, S: GP-11  
 Dutton, S E.: HR-17LB  
 Dyer, M: AB-04  
 D'Addario, A: CA-07

## E

Eagan, C: **ED-04**, **ED-05**  
 Ebels, U: EA-07  
 Ebii, T: GR-09  
 Echtenkamp, W: DD-11  
 Edwards, A: BD-12, **DA-04**  
 Edwards, A J.: GP-08  
 Efe, F: CP-07, FP-16  
 Efimenkov, I: FA-05  
 Eker, C: AD-11  
 Elabbasi, M: ER-14, ER-15  
 Elekhtiar, M A.: BE-06, CA-07, EG-01  
 El-Gendy, A: **CD-11**, ER-14, **ER-15**  
 El-Ghazaly, A: AD-06, DE-02, **DE-09**, GE-02  
 El Kanj, A: DH-11  
 Ellithy, I R.: **EP-13LB**  
 Elyasi, M: FB-01  
 Emo, M: HE-06  
 Emori, S: EF-11, EG-04, FF-06, GE-05, GP-07LB  
 Endo, M: CE-04  
 Endo, T: AQ-10  
 Endo, Y: DP-02, DP-14, EP-05  
 Endoh, T: AG-02  
 Enger, L G.: FC-02, FC-15  
 Enkhnanan, U: CP-14, HD-08  
 Enoki, M: DD-12, DP-09  
 Eo, Y: CD-04  
 Eom, C: BE-06  
 Eom, J: AC-02  
 Eom, S: BQ-14, **CQ-07**, CQ-11, DQ-01  
 Ermoshkina, P: **XA-02**  
 Erram, A: **DR-14**

Escrig, J: **AR-15, DS-01**  
 Esguerra, M: EP-13LB  
 Eskildsen, M: GF-06  
 Evans, E: **TU-02**  
 Ezaka, M: **ER-04**  
 Ezawa, M: DB-02

## F

Fabbrici, S: BA-03, EB-07  
 Fabbri, G: GR-19LB  
 Fabelo, O: FE-10  
 Fabian, J: FG-02  
 Fan, R: AG-03  
 Fan, X: BP-05LB, DA-05  
 Fan, Y: BA-04  
 Fan, Y: AA-04, BD-02  
 Fan, Y: BR-17LB  
 Fang, B: HC-04  
 Fang, H: **CB-08**  
 Farhadi, N: **EG-04**  
 Farias, W: GC-03  
 Farinacci, L: AR-02  
 Farrell, R: BA-02  
 Fassbender, J: FB-04, HG-10  
 Fatima, H: DS-05  
 Faure-Vincent, J: CE-01, DE-04  
 Feggeler, T: CB-08  
 Fekraoui, S: CC-10  
 Fellner, K: AC-13  
 Felner, I: HR-13  
 Felser, C: AF-05, CB-07  
 Feng, R: CR-14  
 Fermon, C: CE-01, DE-04  
 Fernandes, M: EQ-05  
 Fernandez, F: CD-01  
 Fernández, E: DE-08  
 Fernandez-Gonzalez, C: AD-02, AD-03, CB-05  
 Fernandez Gubieda, M: **BA-01**  
 Ferreira, F d.: EQ-04  
 Ferrer, J: CC-14, FG-02  
 Fettar, F: **AE-07, GP-09**  
 Figueroa, A I.: GR-17LB  
 Finco, A: GR-07  
 Finizio, S: DH-11, FB-05  
 Finkel, P: **DC-05, GE-03, HR-15**  
 Finocchio, G: CA-07, EA-04, HF-09  
 Fischer, H E.: HR-17LB  
 Fischer, J: CE-01, DE-04  
 Fischer, P: AD-02, AD-03, **CB-05**  
 Flatau, A: AQ-13  
 Fleischer, J: GF-11  
 Fletcher, J: **BR-01**  
 Florio, P: EG-11  
 Foerster, M: DH-10  
 Fotso, H: GA-03  
 Fournée, V: **EB-07, HE-06**  
 Fowlie, J: CA-07

Frailé Rodríguez, A: GR-17LB  
 Frame, M: HC-07  
 Franco, C: CD-03  
 Franco, V: GR-11  
 Frandsen, B: **DB-08, DC-06**  
 Frank, M: GP-08  
 Franz, M: **DB-06**  
 Frej, A: **EG-10**  
 Friedland, A: DC-03  
 Friedman, A: BD-12, CH-08, DA-04, GF-03, GF-10  
 Friedman, J S.: DA-04, GP-08  
 Frnández-García, L: DH-10  
 Fröhlich, S M.: HF-14  
 Frömter, R: HF-07, HF-14  
 Frontini, F: **GR-19LB**  
 Fu, L: DA-07  
 Fu, S: BC-01  
 Fuchs, G: CA-07  
 Fugetta, B J.: AD-02, AD-03, **GD-12**  
 Fuhrmann, F: AF-11  
 Fujii, Y: BG-02  
 Fujimori, Y: DQ-05  
 Fujisaki, K: **EP-01**  
 Fujita, H: CP-09  
 Fujita, J: EQ-03  
 Fujita, M: FR-10  
 Fujiwara, K: HR-03  
 Fujiwara, K: FE-07  
 Fujiwara, K: DE-11  
 Fujiwara, K: CE-04  
 Fukamachi, T: EF-02  
 Fukami, S: BF-03, BP-02, ED-09, FE-07  
 Fukui, Y: CA-02  
 Fukuma, Y: AD-08, CR-14  
 Fukunaga, H: AP-11  
 Fukuoka, Y: CD-06  
 Fukushima, H: CE-04  
 Fullerton, E: CB-08, DH-07, EF-13, GC-09, HB-01  
 Fullerton, J: CC-03  
 Fultz-Waters, S: **HE-03**  
 Funabashi, N: AR-08  
 Funae, T: **HQ-02**  
 Funatani, S: EQ-15LB  
 Furusaki, A: DB-04  
 Fushimi, M: FC-06  
 Fushimi, Y: **BF-03**

## G

G. Suresh, K: ED-10, EE-12  
 Gadbois, J: AA-04, BD-02  
 Gaerner, M: BG-04  
 Gajara, S: HQ-11  
 Galíndez-Ruales, E: AF-11, BB-07  
 Gallo, L: EB-07  
 Galvita, V: GR-03  
 Gama Monteiro, M: CA-03, FD-07

Gandarias, L: BA-01  
 Gandini, G: DA-03, FG-08  
 Gao, L: BC-01  
 Garcia, A: CS-04, FP-05  
 Garcia, J H.: CC-05  
 García, M A.: ER-14, ER-15  
 García-Arribas, A: **DE-08, GE-01**  
 García-Barriocanal, J: EE-03  
 García-Prieto, A: BA-01  
 García Redondo, F: CA-03  
 García-Sánchez, F: GP-08  
 Garfías-Dávalos, D: XA-01  
 Garica Fuente, A: FG-02  
 Garland, J: CC-03  
 Garlea, V: AF-01  
 Garman, M: HG-02  
 Garrett, M: FQ-02  
 Garst, M: AC-13, FE-02  
 Gartside, J: CR-10, GC-05, HF-12  
 Gashi, A: CB-05  
 Gatel, C: GP-09  
 Gaudin, G: CE-01, DE-04  
 Gautam, K: FE-10  
 Gautam, R: CS-14LB  
 Gautam, R: DP-12  
 Gawryluk, D: GB-03  
 Gay, F: AE-07  
 Gayles, J D.: FG-10  
 Geerts, W: **CS-05, CS-07, GR-08, GR-14**  
 Gegenwart, P: GB-07  
 Gehring, P: DC-03  
 Gen, M: FE-10  
 Genfior, E: **FP-05**  
 George, J: GA-02  
 George, T F.: GC-10  
 Gerven, L v.: **CS-13LB**  
 Gestoso, G: DE-08  
 Geuchies, J: BC-01  
 Ghadai, B: EP-14LB  
 Ghahremani, M: **EB-09**  
 Gherca, D: ER-08  
 Ghimire, B: DB-03  
 Ghimire, N J.: GF-06  
 Ghoreyshi, A: **BD-09**  
 Ghosh, R K.: GF-10  
 Gibbons, J: BA-04  
 Gibeault, S: EA-07  
 Gilbert, D A.: **FC-05, HF-13**  
 Gilbert, S: FA-02  
 Gilbert Corder, S: **AC-10**  
 Gillemot, F: DP-13  
 Gim, S: GQ-04  
 Girt, E: BG-07, DS-11  
 Giuliano, D: FD-03  
 Glavic, A: AE-11  
 Gliga, S: **BE-01**  
 Glushkov, V: DF-03  
 Go, D: **BB-01, BB-07, DR-10**

Godel, F: GA-02  
 Gohda, Y: EE-09  
 Gokce-Polat, E: DD-11  
 Goldfarb, R: **AE-01, CS-12LB**  
 Gomes, A: GR-12  
 Gomes da Silva, E: **HG-02**  
 Gomez-Pastora, J: AE-04, BA-02, **CD-04**,  
 ER-02, **FC-11**, GR-06  
 Gomonay, O: BB-07, BC-01, DB-09, GA-  
 08  
 Gong, E: HG-05  
 Gong, M: CR-08  
 Gong, Y: **GC-03**  
 Gonzales, S: FP-13  
 Gonzalez, F: CS-04  
 González-Fernández, C: FC-11  
 Gonzalez-Ruano, C: BP-04  
 Gonzalez Villegas, A: EP-03  
 Goodman, M: **AP-09**  
 Gopman, D B.: DC-03, DP-04, DS-14LB  
 Gorchon, J: AR-10, GC-09  
 Goswami, A: FQ-01  
 Goto, M: AQ-06, GP-03  
 Goto, R: **EC-03**  
 Goto, T: **BG-01**, GG-11, HR-03  
 Goto, T: **FR-02**  
 Gotoh, Y: AQ-12, AQ-14, AQ-15, GR-02  
 Gouéré, D: DH-11  
 Graczyk, P: BP-03  
 Graeser, M: CD-07  
 Grandal, J: DH-10  
 Grassi, J: HC-11  
 Gray, A X.: HC-11  
 Greaves, S: **AA-02**, BD-04  
 Green, J: GB-08  
 Greening, R W.: BP-05LB  
 Greil, J: **AR-12**, BR-13, **DG-05**, **DG-06**  
 Grelier, M: CB-09  
 Greven, M: DC-10  
 Grier, T: FQ-02  
 Griffin, S M.: BC-12, CB-05, FQ-12, GC-  
 11  
 Griffiths, J E.: **AB-04**  
 Grobis, M: CA-04  
 Grochot, K: AG-08  
 Groefsema, J: AR-13LB  
 Grollier, J: CR-07, CR-11, FD-05  
 Groot, T: FE-04  
 Gross, M J.: FB-05  
 Grossmark, T P.: **HE-08**  
 Gruber, R: GC-07, HF-14  
 Grundler, D: DH-11  
 Grutter, A J.: DC-03, DC-08, EF-12, HB-  
 07  
 Gu, J: CC-09  
 Guan, Y: DR-05  
 Gubala, K: AG-08  
 Gubieda, A G.: BA-01

Guedas, R: DH-10  
 Guedes, M V.: EQ-04  
 Guen, Y L.: AF-04, AR-10, GC-02, GC-  
 09  
 Guidobeth, S: DS-01  
 Guillet, T: CC-05, **CC-10**  
 Gundlach, L: CH-06, GG-09  
 Gunduz Akdogan, N: **ER-09**, GD-04  
 Gungordu, B: ER-09  
 Guo, H: **CC-01**  
 Guo, Q: GD-01  
 Guo, R: EG-03  
 Guo, X: GQ-01  
 Guo, Z: GC-07  
 Guofei, L: CR-14  
 Guo-Hua, Z: BC-07  
 Gupta, A: AD-10, HE-11  
 Gupta, A K.: AD-08  
 Gupta, A: **GD-10**  
 Gupta, A: **DC-02**  
 Gupta, M: GD-10  
 Gupta, R: AF-02  
 Gupta, R: **AD-10**  
 Gupta, S: HQ-01  
 Gustafson, J K.: AF-03  
 Gutierrez, E: CS-04, FP-05  
 Gutiérrez, J: GE-01  
 Gutt, C: GC-07  
 Guy, M: CP-07, FP-16

## H

Hackner, L: HG-08  
 Hadimani, R L.: EQ-05, ER-03, ER-10,  
**HA-03**, HA-05, HA-06  
 Hager, A: FQ-16  
 Hai, N: FF-01  
 Haidamak, T: AC-05, FE-09  
 Hait, S: **DR-02**  
 Haldar, A: HQ-11  
 Hales, M: **CH-03**  
 Hamada, R: CR-14  
 Hamdi, M: BF-04, CA-07, HQ-16LB  
 Hameed, S: BC-01  
 Hamid, S B.: BF-04, EA-05  
 Hammack, A T.: CB-05  
 Hamrle, J: BG-04  
 Han, D: **GQ-06LB**  
 Han, D: CF-07, FF-10, GQ-12  
 Han, G: **HQ-04**  
 Han, H: CC-09, HF-08  
 Han, H: GR-10, HP-15  
 Han, J: FE-07  
 Han, J: EQ-10  
 Han, X: AR-11, CR-03, CR-16, GQ-01  
 Hanashima, T: DC-03  
 Hanbicki, A T.: BD-12, CH-08, DA-04,  
 GF-03, GF-10  
 Hanggai, H: **EE-08**, **ER-16**

Hanson, A: **FA-01**  
 Hanson-Flores, J: AF-02, **AF-09\***  
 Hao, H: HR-10  
 Hao, R: **AA-05**  
 Hao, Y: CC-03  
 Hao, Y: GB-08  
 Harada, K: BR-03  
 Haran, K S.: CQ-12  
 Hareau, C: AF-07, FF-13  
 Harms, H: FQ-16, FR-20LB  
 Haroon, A: EQ-03  
 Hart, D R.: **HB-04**  
 Hasegawa, S: AC-07  
 Hasegawa, T: **CP-04**, DE-03, GD-11  
 Hashimoto, Y: AC-07  
 Haskel, D: GR-19LB, HR-09  
 Haslinger, P: AE-05, **HB-06**  
 Hatajiri, T: EG-02  
 Hatayama, S: CC-15  
 Hatt, S: DB-08, DC-06  
 Hatton, P: DC-11  
 Hattori, T: EF-02  
 Hauet, T: AF-04, CF-02, CF-03  
 Hauser, A: ED-08, FQ-02  
 Hayami, S: FE-10  
 Hayashi, K: BD-11, EF-02, FD-08, HC-  
 10  
 Hayashi, M: DF-06, EG-08, FP-01  
 Hayden, B: BE-05  
 Haynes, J A.: AP-12LB  
 He, H: DP-11  
 He, H: **DF-02**  
 He, J: **AP-13LB**  
 He, J: GB-08  
 He, L: CC-03  
 He, R: **AC-01**, CC-06, FR-20LB  
 He, W: HE-03  
 He, X: BD-05  
 He, Z: HR-06, HR-10  
 HE, Y: EQ-15LB  
 Heacock, B: HF-06  
 Heczko, O: **GE-07**, **HR-19LB**  
 Hedlund, D: DD-03  
 Hehn, M: AE-07, AF-04, AG-13, AR-10,  
 BD-11, CA-09, CH-07, GC-09  
 Heinonen, O: BD-05  
 Heins, C: **FB-04**, HG-10  
 Heinz, B: AR-12, DG-02, DG-06  
 Helbig, S: CD-07  
 Hellings, G: CA-03  
 Hellman, F: CB-05  
 Heltemes, K: EE-03  
 Heltman, A: BP-08  
 Hemesath, C: FQ-16  
 Henderson, M: GF-06, **HF-06**, HF-13  
 Henri, C: CH-07  
 Heo, J: DR-01LB  
 Heppell, E: CB-03

Herfort, J: **CC-13**  
Hernandez, R: **FC-11**  
Hernandez, S: **BD-09**  
Hernández-Mínguez, A: **CC-13**  
Herrera, G: **FP-13**  
Herrera Diez, L: **CR-11**  
Herrmann, I K.: **CD-07**  
Hersam, M C.: **CA-07**  
Hertel, J: **FG-08**  
Herz, J: **DC-08**  
Hesjedal, T: **CB-03, FD-04, FE-02**  
Heynderickx, G: **GR-03**  
Hibino, Y: **CR-04, HE-09**  
Higashikawa, K: **BP-14**  
Higo, T: **BF-06, CB-02, CF-12**  
Hill, N: **FR-06**  
Hindmarch, A: **AG-03**  
Hioki, T: **FB-01**  
Hirai, T: **CC-15, DF-09, EG-03**  
Hirama, R: **DP-01**  
Hiramoto, S: **DD-08**  
Hiraoka, I: **AE-09**  
Hirata, K: **CC-15**  
Hirata, S: **BP-01, CF-04, HQ-05**  
Hirayama, Y: **EC-11, GD-05, GD-06, GD-07, HD-05**  
Hirobe, D: **BP-07**  
Hirohata, A: **AF-05, GA-07, GQ-10**  
hiroi, K: **FR-10**  
Hiroi, M: **FR-03, FR-04**  
Hirschberger, M: **DB-02, DB-04, FE-10**  
Hirschmann, M M.: **DB-02, DB-04**  
Hisatomi, R: **CF-04, DS-04, HQ-05**  
Hitzelberger, N: **FR-18LB**  
Hlova, I Z.: **BG-06**  
Hoang, T: **FQ-10**  
Hobara, R: **AC-07**  
Hoffmann, A: **CE-05, CG-05, DG-09, EG-13, FB-02, FG-07, HG-05, HR-05**  
Hofschen, M: **BR-13, DG-05**  
Hohlfeld, J: **AF-04, AR-10, CH-07, CH-09, GC-02, GC-09**  
Hojo, T: **CE-04, DE-01**  
Holla, A: **DA-01**  
Hollis, M: **HB-01**  
Holobradek, J: **FB-05**  
Holt, N: **EQ-09**  
Homma, T: **FP-07**  
Honecker, A: **FR-13**  
Honer, K: **BA-04**  
Hong, H: **EQ-07**  
Hong, J: **AR-07, BC-04, BC-09, BP-10, EE-11, FR-07, FR-08**  
Hong, J: **BF-05, FF-03**  
Hong, J: **BP-04**  
Hong, J: **ER-07**  
Hong, S: **CG-06**  
Hong, X: **DC-01**

Hono, K: **AA-04, GD-03**  
Horibe, S: **FB-01**  
Horiuchi, K: **FP-03**  
Horizumi, K: **HG-03**  
Horvath, A: **DP-13**  
Horvath, M: **DP-13**  
Hosen, K: **AA-01**  
Hoshi, K: **FB-01**  
Hosokawa, A: **GD-08**  
Hosokoshi, Y: **EE-02, GB-06**  
Hosono, Y: **AQ-12, AQ-14**  
Hossain, A: **EP-12**  
Hou, J: **DP-11**  
Hou, Y: **CC-01**  
Hovančík, D: **AC-05**  
Hrabec, A: **CB-07, HF-10**  
Hridoy, H: **CD-04**  
Hsieh, C: **AC-08, AC-09, HA-07**  
Hsu, C: **FD-10**  
Hsu, C: **BR-16LB, GR-18LB**  
Hsu, H: **GR-13**  
Hsu, J: **FD-10**  
Hsu, W: **BF-07**  
Hsu, Y: **FR-19LB**  
Htet, H: **DE-09, GE-02**  
Hu, C: **CE-06**  
Hu, G: **DS-15LB, EG-07**  
Hu, J: **HD-01**  
Hu, J: **CC-03**  
Hu, L: **GD-12**  
Hu, S: **HR-06, HR-10**  
Hu, X: **GP-08**  
Hu, Z: **DP-06**  
Huai, C: **CC-02**  
Huang, A: **CE-06**  
Huang, B: **BP-04**  
Huang, B: **GQ-11**  
Huang, C: **HA-07**  
Huang, C: **GB-08**  
Huang, D: **DP-04**  
Huang, J: **CC-03**  
Huang, K: **EG-01**  
Huang, S: **BF-07, DA-05, FP-06**  
Huang, Y: **DF-05**  
Huang, Y: **DG-07**  
Hubble, Z: **EG-01**  
Hubert, M: **FQ-05**  
Huebl, H: **FB-06**  
Hueso, L: **DB-09**  
Hug, H J.: **CD-07, HF-05, HF-09, HF-10**  
Hughart, D: **DA-06**  
Hughes, S: **BG-05**  
Hur, J: **HQ-06**  
Husain, S: **FB-08**  
Hwang, C: **CC-12, HF-11**  
Hwang, J: **HQ-09**

**I**  
Iacocca, E: **AD-04, AD-07, ED-01, ED-04, ED-05, GG-06, GG-07**  
Iba, S: **GA-06**  
Ichiyanagi, Y: **BA-05**  
Ideta, S: **AC-07**  
Igarashi, J: **AR-10**  
Iglesias, F: **FP-05**  
Iglesias-Cardinale, V: **GA-03**  
Iida, U: **FR-05**  
Iihama, S: **AR-10, BD-11, EF-02, FD-08**  
ijima, R: **CF-04, HQ-05**  
Iino, A: **FC-06**  
Ijiri, Y: **DC-08, EF-12**  
Ikeda, A: **AE-02**  
Ikeda, F: **BD-11**  
Ikeda, K: **FQ-09**  
Ikeda, S: **AG-02**  
Ikeda, Y: **DP-09, FR-10**  
Im, E: **AR-09, BE-05, BR-10**  
Im, M: **CC-09, FC-03, HF-08**  
Imaeda, H: **CS-02**  
Imai, Y: **AQ-10**  
Imamori, S: **DE-11**  
Imamura, K: **DE-06**  
Imamura, K: **HD-09, HE-07**  
Imanishi, H: **GP-03**  
In, Y: **DP-03, DQ-14**  
Inaoka, Y: **FF-06**  
Incorvia, J C.: **CA-07, EA-05, GQ-08**  
Incorvia, J: **BF-04, FD-03, HE-12**  
Ingla-Aynes, J: **DA-07**  
Inomata, S: **AQ-16**  
Inoue, H: **BE-11**  
Inoue, J: **AQ-07**  
Inyang, O: **AG-03**  
Ipatov, M: **CP-01**  
Iriyama, T: **DP-09**  
Isaeva, A: **BC-02, EP-07, FE-04, FR-18LB**  
Ishibashi, K: **AR-10**  
Ishida, M: **CG-07**  
Ishihara, Y: **FE-10**  
Ishii, F: **GQ-07**  
Ishikawa, R: **GP-03**  
Ishikawa, T: **EE-07, FQ-08, GQ-14**  
Ishikawa, Y: **EF-02**  
Ishiyama, K: **BG-01, GG-11, HR-03**  
Ishizuka, H: **HB-08**  
Islam, M: **EP-12**  
Islam, M: **AQ-06**  
Islam, M: **CS-05, CS-07**  
Islam, S: **GQ-08**  
Isogami, S: **AA-04, AF-06, BD-02, CG-01, FF-12, HD-09, HE-07**  
Isshiki, H: **GG-02**  
Itani, R: **ED-02**  
Itani, S: **ED-02**

Ito, M: **FP-03**  
 Ivanov, B: **AR-13LB**  
 Ivanova, E E.: **AQ-13**  
 Iwai, H: **BF-03**  
 Iwasaki, Y: **AB-09**  
 Iyer, P: **AE-04, GR-06**  
 Izquierdo, R: **DH-10**

## J

Jaberolansar, E: **CD-10, FP-10**  
 Jabran, S: **HR-13, HR-14**  
 Jaffrès, H: **CH-07, GA-02**  
 Jain, P: **DC-06, DC-10**  
 Jain, R: **FF-01**  
 Jakob, G: **AF-11, BB-07, BC-01**  
 Jamer, M E.: **EG-09**  
 Jamshed, B: **HQ-08**  
 Jan, S: **ED-10, EE-12, FP-10**  
 Jander, A: **BR-01**  
 Jang, H: **CG-04**  
 Jang, J: **ER-07**  
 Jang, K: **DD-02**  
 Jang, P: **DQ-11**  
 Jang, S: **FC-14**  
 Jani, H: **CB-04, EF-09, FF-11**  
 Jaouen, N: **CB-09, GC-07, GP-09**  
 Jaros, A: **AE-05**  
 Je, S: **GQ-15, GQ-16**  
 Jeffremovas, E M.: **FG-01**  
 Jena, B P.: **AC-04**  
 Jena, B: **GP-12**  
 Jena, S K.: **FP-09, GP-04**  
 Jensen, C: **DC-08**  
 Jeon, J: **BF-02, DH-06**  
 Jeon, S: **CG-05**  
 Jeon, S: **HQ-04**  
 Jeon, S: **HP-15**  
 Jeon, Y: **DB-01**  
 Jeong, D: **DS-04**  
 Jeong, E: **DC-03**  
 Jeong, E: **DB-01**  
 Jeong, J: **DD-02**  
 Jeong, J: **BR-05, BR-11, FF-10**  
 Jeong, K: **AR-07, BC-04, BC-09, BP-10, EE-11, FR-07, FR-08**  
 Jeong, S: **GQ-12**  
 Jeong, S: **CG-04**  
 Jeong, S: **DQ-03, DQ-12**  
 Jeong, Y: **HF-11**  
 Jeong, Y: **GQ-15**  
 Jhang, R: **FF-01**  
 Ji, D: **CQ-15**  
 Ji, X: **BG-03**  
 Jia, L: **BB-06**  
 Jiang, C: **AP-13LB**  
 Jiang, L: **EP-06, HC-09**  
 Jiang, N: **AG-01, AG-04, CC-04, HQ-13**  
 Jiang, W: **CC-03**

Jiang, X: **HQ-03**  
 Jiang, Y: **DG-07**  
 Jin, C: **CQ-09, GR-10**  
 Jin, H: **DA-06**  
 Jin, R: **GC-03**  
 Jin, Z: **AF-05**  
 Jo, C: **EQ-07, EQ-08**  
 Jo, Y: **CG-06**  
 Johnson, T: **AE-02**  
 Joisten, H: **BA-07**  
 Jones, N J.: **EP-10, FC-07, GE-03**  
 Jong-Woo, K: **HR-04**  
 Jordan, B: **GF-11**  
 Jorgensen, C S.: **FC-05**  
 Joseph, A: **GE-08**  
 Josephy, S: **GG-12**  
 Joshi, P: **BG-10, CP-12, CP-13, EE-05**  
 Jossart, N: **CA-03**  
 Joumard, I: **CE-01, DE-04**  
 Ju, T: **HF-11**  
 Jubert, P: **BD-01, BD-06**  
 Jun, E: **AR-09, BE-05**  
 Jung, J: **AC-07**  
 Jung, M: **DQ-13**  
 Jung, M: **GQ-04**  
 Jung, S: **ER-07**  
 Jung, T: **DQ-13**  
 Jung, W: **CA-04**  
 Jung, W: **CQ-08, CQ-14, CQ-16**  
 Jung, Y: **CG-04**  
 Jungfleisch, B: **CH-06, EG-05, GG-09, GG-12, HG-09**  
 Jungwirth, T: **DB-09**  
 Jyothi Bhasu, A: **CC-14**

## K

K, A: **AG-13**  
 K. Sangwan, V: **CA-07**  
 Kabata, Y: **CG-07**  
 Kaczmarek, S: **HR-13**  
 Kadlec, C: **DC-07**  
 Kadlec, F: **DC-07**  
 Kado, M: **DH-05**  
 Kaiju, H: **DF-04**  
 Kainuma, Y: **CE-02**  
 Kajiwara, T: **GD-03**  
 Kákay, A: **FB-04**  
 Kalappattil, V: **DP-04, GF-08, GF-10**  
 Kaman, O: **CS-10**  
 Kamba, S: **AC-05**  
 Kameda, M: **HF-03**  
 Kamijima, Y: **ER-12**  
 Kamiroyo, A: **CG-03**  
 Kamisaka, S: **DF-07**  
 Kamiya, K: **EB-03**  
 Kamiya, Y: **EE-02**  
 Kammerbauer, F: **HF-07, HG-10**  
 Kammerer, J: **CE-01, DE-04**

Kanai, S: **BF-03, BP-02, FE-07**  
 Kanai, Y: **AA-02, BD-04, CE-10**  
 Kanak, J: **HC-05**  
 Kanazawa, I: **GP-13**  
 Kancko, A: **FE-09, GB-07**  
 Kandwal, N: **AG-12, CR-12, DR-15**  
 Kaneda, R: **EQ-15LB**  
 Kaneko, H: **BP-02**  
 Kang, H: **CG-06**  
 Kang, J: **BF-04, CA-07, CG-04, FF-10, HQ-16LB**  
 Kang, M: **HF-08**  
 Kano, A: **AQ-12, AQ-14**  
 Kantartzis, N V.: **CE-10**  
 Kao, Y: **ED-02**  
 Kapetan, H V.: **ER-15**  
 Kapteyn, H C.: **CB-08**  
 Karaman, T: **HF-05**  
 Karati, A: **BG-08**  
 Kareev, M: **HC-11**  
 Karki, P: **EG-01**  
 Karki, T: **BG-10, CP-12, CP-13, EE-05**  
 Karlova, K: **BC-13, FR-13**  
 Karube, S: **BF-08, CF-04, DS-04, FF-06, HQ-05**  
 Kasahara, S: **CF-01**  
 Kasahara, Y: **CF-01**  
 Kasai, S: **DS-04**  
 Kasai, S: **BD-03, GP-01**  
 Kassym, D: **ED-02**  
 Kataoka, N: **BA-05**  
 Kateel, V: **AG-10, FD-03, FD-07**  
 Katine, J: **BA-04, CA-04, CA-07, EA-04**  
 Kato, A: **DD-09**  
 Kato, M: **DQ-07**  
 Kato, T: **FP-07**  
 Katsumura, H: **DE-05**  
 Kaufmann Ribeiro, C: **FE-05**  
 Kaulich, B: **CB-07**  
 Kaur, D: **CE-12**  
 Kaur, R: **GQ-03, HQ-11**  
 Kaushik, S D.: **GB-02**  
 Kautsar, Z: **GD-03**  
 Kawagita, K: **EF-02**  
 Kawaguchi, M: **DF-06, EG-08, FP-01**  
 Kawaguchi, Y: **HF-03**  
 Kawahara, R: **AG-01**  
 Kawai, M: **DR-09**  
 Kawai, T: **AP-10**  
 Kawamura, H: **HQ-13**  
 Kawana, M: **AR-08**  
 Kawana, R: **FP-07**  
 Kawarazaki, R: **HQ-05**  
 Kawashige, R: **CA-05**  
 Kawashima, M: **BP-14**  
 Kazami, S: **FE-07**  
 Kazemian, M: **CB-07**  
 Keagy, J: **FQ-13**

- Keatley, P S.: HG-02  
 Kefayati, A: CH-06  
 Keller, L: GB-03  
 Kelley, J: FG-10  
 Kent, A D.: AF-09, AG-13, FD-11, HG-05  
 Kent, N: HA-01  
 Kern, L: **GF-04**  
 Keum, J: AF-09  
 Kézsmárki, I: CF-10  
 Khadiev, A: HE-11  
 Khalili Amiri, P: BF-04, CA-07, EA-04, HQ-16LB  
 Khaliq, W: DH-10  
 Khan, M: CP-08, HR-11  
 Khan, S: **FA-05**  
 Khanas, A: DF-03  
 Khandaker, M: CD-08, EQ-09  
 Khare, S: **HQ-16LB**  
 Kharel, P: **EF-08**, FQ-01  
 Khatri, Y: **GQ-13**  
 Khayr, I: DC-10  
 Kho, D: GQ-08  
 Khodadadi, M: FA-07  
 Khodagulyan, A: CS-04, FP-05  
 Khodaparast, G: CH-08  
 Khokhlov, N: AR-03  
 Khurshid, H: FP-10  
 Khymyn, R: HG-01  
 Kidd, T: FQ-16  
 Kidd, T: **FR-20LB**  
 Kiechle, M: EG-07  
 Kiefe, R: EB-06  
 Kiehl, C: FB-02  
 Kihara, F: EC-03  
 Kihara, S: FQ-09  
 Kihara, T: FQ-11, GB-06  
 Kijima-Aoki, H: **DE-05**  
 Kikkawa, A: FE-10  
 Kikkawa, T: BB-07, HQ-13  
 Kim, C: BQ-08, CQ-01  
 Kim, D: **DD-10**  
 Kim, D: DP-03, DP-15  
 Kim, D: AP-04, EC-09  
 Kim, D: EC-07  
 Kim, D: BQ-09, **CQ-15**  
 Kim, D: HQ-06  
 Kim, D: DS-07  
 Kim, D: **VP-01**  
 Kim, D: BB-08, GQ-15, GQ-16  
 Kim, E: BQ-01, BQ-06, DQ-06  
 Kim, E: HQ-06  
 Kim, G: EC-06  
 Kim, H: BE-05, BR-10  
 Kim, H: BQ-09  
 Kim, H: **AR-07**, FR-08  
 Kim, H: **FC-06**  
 Kim, H: BQ-07, BQ-08, CQ-01, **CQ-09**, CQ-10, **DQ-10**  
 Kim, H: EC-02  
 Kim, H: **FF-10**  
 Kim, H: **GC-04**  
 Kim, J: ER-07  
 Kim, J: DQ-11  
 Kim, J: DQ-16, EQ-10  
 Kim, J: AP-07, EP-11  
 Kim, J: DH-11, FB-04  
 Kim, J: **EC-11**  
 Kim, J: **DS-07**  
 Kim, J: BQ-01, BQ-06, **DQ-06**  
 Kim, K: AG-05, AR-09, BR-05, BR-11, CE-05, CF-07, CG-04, CH-05, DG-09, EG-13, FF-10, GQ-12  
 Kim, K: HQ-04  
 Kim, K: GP-02LB  
 Kim, K: FF-10, GQ-15  
 Kim, M: EE-11  
 Kim, M: CG-06  
 Kim, M: **BB-08\***, GQ-15, GQ-16  
 Kim, M: BQ-03, **CQ-06**, HP-07, HP-08  
 Kim, M: GE-10  
 Kim, M: BQ-02, **CQ-03**, HP-09  
 Kim, M: CQ-13, **HP-06**, HP-10  
 Kim, N: CF-07  
 Kim, P K.: **AR-13LB**  
 Kim, S: **CQ-13**, HP-06, HP-10  
 Kim, S: AR-09, BE-05, BR-10, FF-10  
 Kim, S: CQ-05, **DQ-09**  
 Kim, S: DE-12, DQ-15  
 Kim, S: GP-02LB, GQ-06LB  
 Kim, S: **GQ-15**  
 Kim, S: BQ-02, **CQ-02**, CQ-03, CQ-11, DQ-01, DQ-02, HP-09  
 Kim, S: EQ-08  
 Kim, S: DS-07, **HQ-07**  
 Kim, S: CG-04  
 Kim, S: AP-04, **BB-03**, **EC-02**, EC-06, EC-09  
 Kim, S: BQ-11, BQ-12, CQ-08, DQ-01, HP-04  
 Kim, S: DQ-03, **DQ-12**  
 Kim, T: DP-15, DQ-14  
 Kim, T: **CC-12**  
 Kim, T: AP-04, EC-02, **EC-06**, EC-07, EC-09  
 Kim, T: **BQ-01**, BQ-06, DQ-06  
 Kim, T: **BQ-14**, CQ-07, CQ-11  
 Kim, T: HF-11  
 Kim, W: BQ-05, BQ-07, BQ-08, CQ-01, CQ-09, CQ-10, DQ-10, GR-10, HP-15, HP-16  
 Kim, W: CC-09  
 Kim, Y: **HA-01**  
 Kim, Y: GQ-04  
 Kim, Y: DR-01LB  
 Kim, Y: **DB-01**  
 Kim, Y: CG-06  
 Kimata, M: FQ-11, GQ-10  
 Kimel, A V.: AR-03, AR-13LB, BR-06, CH-03, CS-13LB  
 Kinane, C: DC-03, DC-08, EF-12  
 Kinast, A: EB-01  
 Kindiak, I: CF-05  
 Kinoshita, T: **BP-02**  
 Kirilyuk, A: **GC-08**  
 Kirti, K: **EP-14LB**  
 Kitagawa, W: ER-04  
 Kitazawa, H: EB-03  
 Kitcher, M D.: **CF-06**  
 Kitou, S: FE-10  
 Kiyota, T: DP-14  
 Kizil, R: **BP-08**  
 Kläui, M: AF-11, BB-07, BC-01, CG-08, GC-07, HF-07, **HF-14**, HG-10  
 Klein, J: DA-07  
 Klementová, M: CP-16  
 Klemmer, T: BD-05  
 Klewe, C: EE-10, EF-13, GE-05, HC-07, **HC-11**  
 Klima, J: FB-05  
 Kmjec, T: CP-16, DC-07, FQ-10, HR-19LB  
 Ko, D: **DR-01LB**  
 Ko, S: AG-05, **CF-07**, CG-04, FF-10, GQ-12  
 Kobayashi, K: FR-02  
 Kobayashi, S: **DP-13**, **FR-10**  
 Kobayashi, Y: AQ-16, AQ-16, DF-06, **FP-01**  
 Kobori, K: DE-05  
 Kocharian, A N.: **CS-04**, FP-05  
 Kochetkova, E: FE-04  
 Kocsis, V: CF-10  
 Kocyigit, M: DG-09  
 Koda, Y: FR-04  
 Kodama, T: ER-12  
 Kodama, T: **DG-01**  
 Kohl, F: AR-12, DG-02, DG-06  
 Köhler, J: **AF-11**, BB-07  
 Kohout, J: CP-16, CS-10, DC-07, FQ-10  
 Koike, S: CS-09  
 Koizumi, H: DR-08, GA-07, **GQ-10**  
 Kojima, K: EE-02, FE-03  
 Kojima, Y: FR-02  
 Komar, C: EE-03  
 Komine, T: FP-03, GF-07, HG-03  
 Komori, S: AR-14, HG-06  
 Konakanchi, S: CA-07, HQ-16LB  
 Kondou, K: AG-04  
 Kong, D: **CR-16**  
 Koo, H: EQ-07, EQ-08  
 Koo, M: CQ-05  
 Koopmans, B: AQ-05LB

Kopel, I: FE-05  
 Koraltan, S: CD-07, **HF-05**  
 Körber, L: FB-04  
 Kosaki, H: BF-06, CB-02, EG-02  
 Kosogor, A: **EB-04**  
 Kostadinov, S: GP-06  
 Kotsakidis, J: GF-11  
 Kotsugi, M: AB-09  
 Kotula, A: FC-04  
 Kounta, I: DB-09  
 Kousaka, Y: AG-01, CC-04, FE-03  
 Kovacs, A: CP-05  
 Kovács, A: BB-07, BC-01  
 Kovalenko, O: CH-03, **GC-06**  
 Koyiloth Vayalil, S: BR-07  
 Kozelj, P: HE-06  
 Koziol Rachwal, A: FP-08  
 Kraft, R: ED-07, **FG-04**  
 Kramer, M J.: HD-11  
 Krawczyk, M: DG-10  
 Krcma, J: FB-05  
 Kriegner, D: **BF-10, DB-07**, DB-09  
 Krishnan, S: AP-06, GD-01  
 Krishnia, S: BB-07, CG-08, HF-14  
 Kronast, F: BB-07  
 Kruhlov, S: CE-05, EG-13  
 Krupinski, M: CD-07  
 Ksenzov, D: GC-07  
 Ku, Y: FP-06  
 K U, P: FQ-14  
 Kubaniová, D: CS-10, HR-19LB  
 Kubániová, D: **CP-16**, DC-07  
 Kubickova, L: CP-16, CS-10, **DC-07**  
 Kubo, T: **FR-09LB**  
 Kubota, H: CR-04, HE-09  
 Kubota, T: CE-04, **DE-01**, DP-01  
 Kubota, Y: AA-04, BD-02  
 Kuchi, R: **BG-06**, ER-10  
 Kudo, K: AG-04  
 Kuepferling, M: FG-08  
 Kuhn, S: GF-06  
 Kukreja, R: DC-08, **DH-02**, EE-10  
 Kulakarni, S: **AD-06**  
 Kulesh, N: **AB-08**, EC-05  
 Kulickova, J: CS-10  
 Kulik, P: AP-12LB, BE-04, DD-03  
 Kulinsky, L: CS-06  
 Kumada, T: DP-12, FR-10  
 Kumar, A: BC-01  
 Kumar, A: AC-06  
 Kumar, A: ER-10, FP-14, GP-11, HR-09  
 Kumar, A: HG-01  
 Kumar, A: AC-07  
 Kumar, A: CF-15  
 Kumar, D: AE-10, BR-07  
 Kumar, J: BE-06, EG-01  
 Kumar, P: **CG-01**  
 Kumar, R: HQ-01

Kumar, S: GB-07  
 Kumar, Y: AC-07  
 Kumar Bera, A: BR-07  
 Kumari, G: **AP-01**  
 Kumari, M: **FQ-06, FQ-07**  
 Kunai, Y: HC-10  
 Kundu, M: AF-11  
 Kunyangyuen, B: BD-11, CA-09, GC-09  
 Kurebayashi, D: HF-06  
 Kurita, N: FR-02  
 Kurniawan, I: EG-02  
 Kurokawa, Y: **AQ-02**, BP-06, BP-15, HF-01  
 Kurosawa, S: CF-12  
 Kuschel, T: BB-07, **BG-04, DB-05**  
 Kushwaha, V K.: EG-03  
 Kusunose, R: CR-15  
 Kuswik, P: BP-03  
 Kuwahara, H: **EE-07**, FQ-08, GQ-14  
 Kuwahata, A: CD-06, **ER-11, ER-12**  
 Kuwayama, R: HD-09  
 Kwak, K: **CQ-05**, DQ-09  
 Kwiatkowski, A: FP-08  
 Kwon, J: **AR-05**

## L

L'vov, V A.: EB-04  
 Lacour, D: AE-07, GC-09  
 Laderer, W: GB-08  
 LaGasse, S: BD-12  
 Lai, C: FF-09  
 Lai, Y: **HG-05**  
 Lai, Y: FR-19LB  
 Laliena, V: FE-03  
 Lallart, M: DE-05  
 Lambert, N J.: **HG-08**  
 Lambertson, E: AC-11  
 Lamichhane, S: EG-01  
 Lamichhane, T: AP-09, BG-05, **CD-08**, DS-12, DS-13, **EQ-09, HD-03**  
 Lan, G: GA-02  
 Landers, Z A.: DA-06  
 Landi, M: FA-02  
 Lang, G: CH-08  
 Langer, J: CR-13, HC-03  
 Langridge, S: CB-03  
 Langton, C: AD-02, **AD-03, EF-12**  
 Laraoui, A: BE-06, **EG-01**  
 Laroze, D: AR-15  
 Lasheras, A: **GE-01**  
 Lászlóffy, A: FG-13, FR-17LB  
 Lau, Y: **EF-04**  
 Lauer, P E.: **HC-10**  
 Laughlin, D E.: BD-07, BD-10  
 Laur, V: DD-07, FA-09  
 Lauter, V: CE-06  
 Lawati, D R.: **BE-06**, EG-01  
 Lazcano, Z: BR-12

Lazpita, P: EB-05  
 Le, D: **FG-10, FQ-10**  
 Le, S: DA-04  
 Le, T: **FC-13**  
 Le, V: AA-07  
 Leaie, M: BB-07, CG-08  
 Leao, L: AR-06  
 Leary, A: FA-03  
 Lebourgeois, R: DD-07, FA-09  
 LeClair, P: **ED-08**, FQ-02  
 Lederer, M: FG-08  
 Lederman, D: AF-01, **CC-11**, EF-13  
 Ledieu, J: EB-07, HE-06  
 Lee, A: GQ-15  
 Lee, A: EA-08  
 Lee, A: GA-07  
 Lee, B: **DP-03**, DP-15, DQ-14, EP-02  
 Lee, C: EQ-02, HA-07, HQ-03  
 Lee, C: BQ-05, BQ-07, **CQ-01**, CQ-10, DQ-10, HP-16  
 Lee, D: DP-03, **DP-15**, DQ-14, **EP-02**  
 Lee, G: AR-04LB  
 Lee, G: **BQ-02**, CQ-03, HP-09  
 Lee, G: AP-07  
 Lee, H: DR-04  
 Lee, H: BC-03  
 Lee, H: AP-07, **EP-11**  
 Lee, H: BQ-09, CQ-15  
 Lee, H: BB-06, DR-10, **DR-11**  
 Lee, H: **BQ-03**, CQ-06, HP-07, HP-08  
 Lee, H: BB-06, DR-10, DR-11  
 Lee, J: **BQ-04, CQ-04**, DQ-11  
 Lee, J: **CC-09**, CC-09, **FE-08**  
 Lee, J: BR-11  
 Lee, J: AC-02  
 Lee, J: GQ-15  
 Lee, J: BQ-04, CQ-04, EQ-07, EQ-08  
 Lee, J: AP-04, EC-02, EC-06, EC-07, EC-09  
 Lee, J: BQ-05, GR-10  
 Lee, K: BQ-04, CQ-04, DQ-11  
 Lee, K: CC-09, EC-06, EC-07, FC-03, HF-08  
 Lee, K: **FP-12**, FP-12  
 Lee, K: **AP-07**, EP-11  
 Lee, K: HQ-09  
 Lee, K: CG-06  
 Lee, K: AR-04LB, DR-03, **FF-07**  
 Lee, K: DR-01LB  
 Lee, N: AR-07, BC-04, BC-09, BP-10, EE-11, FR-07, FR-08  
 Lee, S: CD-09  
 Lee, S: EP-02  
 Lee, S: EC-06, **EC-07**  
 Lee, S: **DQ-08**  
 Lee, S: HQ-09  
 Lee, S: **FF-01**  
 Lee, S: AR-09, BR-10

Lee, S: **AP-04**, EC-06, **EC-09**  
 Lee, T: BC-03  
 Lee, U: **CG-05**  
 Lee, W: BF-07  
 Lee, W: FP-12  
 Lee, W: BQ-03, CQ-06, **HP-07**, HP-08  
 Lee, W: EQ-10  
 Lee, Y: ER-07  
 Lee, Y: HE-03  
 Lee, Y: ER-07  
 Lee, Y: **GR-10**  
 Lee, Y: CG-06  
 Leenders, W M.: **AR-03**  
 Legay, M: **DD-07**, FA-09  
 Lei, S: CC-03  
 Leigh, G: DC-08  
 Leighton, C: DC-06, DC-10, EE-03, HC-02  
 Leitao, D: **AQ-05LB**  
 Lendinez, S: GG-12  
 Lengaigne, G: EB-07  
 Le Roy, D: **CD-05**, **CS-03**, **FP-13**  
 Lesne, E: AF-05  
 Lete, N: DE-08  
 Leutner, K: BC-01, HF-07, HF-14  
 Levchenko, K: CE-07  
 Léveillé, C: GC-07  
 Lewis, C J.: EQ-05  
 Li, C: EQ-12  
 Li, C: AP-05  
 Li, C: AF-03  
 Li, C: EE-10  
 Li, G: EF-04  
 Li, H: EA-06  
 Li, J: DP-06  
 Li, J: FB-02  
 Li, M: DA-07  
 Li, P: CC-03  
 Li, S: EA-06, **EA-08**  
 Li, S: FE-06  
 Li, S: CG-05  
 Li, T: GD-12  
 Li, T: CA-05  
 Li, W: **FQ-15**  
 Li, X: XA-01  
 Li, X: CR-16  
 Li, X: **HC-04**  
 Li, Y: **EQ-11**  
 Li, Y: CE-05, DG-09, EG-13, **FB-02**  
 Li, Y: FR-11  
 Li, Y: DP-06  
 Li, Y: CC-03  
 Li, Y: **CC-07**  
 Li, Z: **CA-08**  
 Li, Z: CH-02  
 Liakopoulos, T: **FA-07**  
 Liang, J: HC-02  
 Liang, J: FF-01

Liang, S: AQ-03, CS-11  
 Liang, W: **BF-06**  
 Liang, Y: GC-03  
 Liao, C: CB-08  
 Liao, L: GG-02  
 Liao, W: FQ-13, HQ-15  
 Liao, W: GR-13  
 Lichtl, H: **AR-02**  
 Lilienthal-Uhlig, B: FG-08  
 Lim, J: CE-05, **DG-09**, FB-02, HR-05  
 Lim, J: **DR-03**  
 Lim, M: HR-05  
 Lim, M: BQ-01, **BQ-06**, DQ-06  
 Lim, P G.: CA-07  
 Lim, S: AR-07, **BC-04**, BC-09, BP-10, EE-11, FR-07, FR-08  
 Lim, Y: BQ-05, **BQ-07**, **BQ-08**, CQ-01, CQ-09, DQ-10, HP-16  
 Lima de Medeiros, J: **BR-15**  
 Lin, C: BF-07  
 Lin, H: BC-07  
 Lin, H: FP-06  
 Lin, H: CC-08  
 Lin, H: EQ-02, HA-07  
 Lin, J: BD-11, CA-09, GC-09  
 Lin, M: CC-08  
 Lin, T: CC-08  
 Lin, W: AG-06  
 Lin, Y: FD-10  
 Lin, Z: DP-06  
 Lin, Z: BC-01, CC-01  
 Lindemann, S: **DC-03**, **DS-14LB**  
 Lindero-Hernández, M: XA-01  
 Lindner, M: FB-05  
 Ling, D: BP-04  
 Liou, S: EG-01  
 Lisfi, A: CP-07, **FP-16**  
 Lisik, J: **BG-07**, **DS-11**  
 Littlehales, M: DC-11  
 Litvinenko, A: HG-01  
 Litzius, K: **DH-09**  
 Liu, A: DC-08  
 Liu, C: DC-08, GD-12  
 Liu, C: FE-06  
 Liu, C: GF-08  
 Liu, D: FE-06  
 Liu, H: DQ-04  
 Liu, H: HQ-15  
 Liu, H: EA-06, EA-08  
 Liu, J: DG-04  
 Liu, J: **GG-02**  
 Liu, J: **HR-06**, HR-10  
 Liu, J: **BQ-13**  
 Liu, J L.: **DP-16**, **EP-08**  
 Liu, K: **AD-02**, AD-03, DC-08, EF-12, GD-12, GF-08  
 Liu, L: DA-07  
 Liu, M: **FE-06**

Liu, M: EB-08  
 Liu, P: **EP-09**  
 Liu, P: BG-10, CH-02, CP-12, CP-13, EE-05  
 Liu, R: CH-02  
 Liu, S: **AE-03**, DA-06  
 Liu, S: EQ-12  
 Liu, X: AP-02, AP-03, BG-08, BG-09  
 Liu, Y: **EF-06**  
 Liu, Y: GC-10  
 Liu, Y: DC-08  
 Liu, Y: AB-03  
 Liu, Z: EA-08  
 Liu, Z: GD-06  
 Liu, Z: HC-04  
 Liyanage, N: HF-13  
 Lohr, W: EQ-05, ER-03, **HA-06**  
 Lomakin, V: **AA-06**, BF-05, FF-03, FG-05, GG-10, HG-05  
 Longdell, J: HG-08  
 Longo, E M.: GF-09  
 Longo, M: GF-09  
 Lopes, A: GE-01  
 Lopes Temporao, A: CR-05  
 Lopez-Diaz, L: DH-10  
 Lostun, M: EP-04  
 Loth, S: AR-02  
 Lotsch, B: BC-01  
 Loyal, M: BB-07  
 Lu, H: **GA-05**  
 Lu, J: CC-03  
 Lu, J: BF-05, **FF-03**  
 Lu, J: BE-10  
 Lu, X: CA-08  
 Lu, Y: **GA-01**, GA-02, GA-03  
 Lu, Y: **EF-05**  
 Lue, C: FR-19LB  
 Lukashev, P: **CC-06**, FQ-01, FQ-16, FR-20LB  
 Lumetti, S: FC-02, **FC-15**  
 Luo, B: **AQ-09**, **CE-06\***, **DP-04**  
 Luo, Y: BQ-13, **EQ-12**  
 Luo, Z: CC-01  
 Lupu, N: EP-04, **ER-08**  
 Luxmoore, I: HG-02

## M

M. A. García, D M.: GR-12  
 Ma, L: EQ-05  
 Ma, T: EF-03  
 Ma, X: AF-11  
 Ma, X: CC-03  
 Ma, Y: CR-08  
 Ma, Y: EF-04  
 Maben, M A.: HF-13  
 Máca, F: GE-07  
 Macêdo, R: **GE-08**  
 Machida, H: **EC-04**

- MACHIDA, K: AR-08  
 Madami, M: FG-08  
 Madhavan, A: EA-07  
 Madhusudan Rao, P: **BF-02**, CF-05  
 Madiligama, A S.: **HR-13**, **HR-14**  
 Maeno, Y: AE-02  
 Magdanz, V: **TU-03**  
 Magill, B: CH-08  
 Magni, A: AD-12, DC-04, FG-08  
 Mahesh, S: FQ-13  
 Mai, S: **DA-05**  
 Maicas, M C.: DH-10, FP-11  
 Mailly, D: GR-07  
 Maiti, M: EE-03  
 Maity, D: GR-09  
 Maity, S: AD-08  
 Maizel, R E.: EF-11  
 Majee, S: GP-11  
 Makarov, D: AD-02, CB-05  
 Makartsou, U: **DG-10**  
 Makino, F: **DF-09**, EG-03  
 Makiuchi, T: FB-01  
 Makuta, H: EC-04  
 Malagò, P: **FC-02**, FC-15  
 Malaman, B: GB-03  
 Maletinsky, P: BC-01  
 Malinowski, G: AR-10, BD-11, CA-09, GC-09  
 Mallik, S K.: FB-09  
 Mallon, D: EF-09  
 Malucelli, L: **CE-01**, **DE-04**  
 Mamiya, H: **DP-12**  
 Manchon, A: CG-08, FG-08  
 Mancias A., M: **FA-03**  
 Mancini, N: FQ-13  
 Mandal, A K.: CS-05  
 Mandokoro, T: CF-04, HQ-05  
 Mandrus, D: GF-06  
 Maness, S: DP-10  
 Mangin, S: AF-04, AG-13, AR-10, BD-11, CA-09, CF-03, CH-07, GC-02, **GC-09**  
 Mansell, R: EG-10, HC-03  
 Manso, M: CD-01  
 Mansour, R: DD-07, **FA-09**  
 Mansouri Tehrani, A: HC-11  
 Mantion, S: DH-11  
 Mantovan, R: **DF-03**, **GF-09**  
 Marchal, N: AD-01  
 Marciniak, J: HD-04  
 Marciniak, W: HD-04  
 Marimuthu, M: EP-06, HC-09  
 Marin, J R.: ER-10  
 Marini, S A.: **DP-10**  
 Marotta, A R.: DD-11  
 Marquez Chavez, J: BR-04, **DG-11**, FQ-05  
 Marrows, C: DR-02, FG-10  
 Martella, D: AD-12  
 Martínez-Carracedo, G: CC-14  
 Martinez Vecino, E: CH-07  
 Marukame, T: CR-15  
 Maruyama, I: **HB-09**  
 Maruyama, Y: **EG-05**  
 Maryam, M: **BP-11**  
 Masell, J: DB-02, FE-10  
 Maslanka, D: AG-08  
 Masood, A: FA-05  
 Maspero, F: AR-12, CR-07, DG-02, DG-03, DG-06, EG-11  
 Masseboeuf, A: GP-09  
 Masuda, K: EG-02  
 Masuda, R: ER-04  
 Masumoto, H: DE-05  
 Matczak, M: BP-03  
 Matsuda, Y: CF-01  
 Matsueda, H: HG-04  
 Matsuki, H: AE-02, CF-04, HQ-05  
 Matsumoto, K: EB-03  
 Matsuno, J: HQ-13  
 Matsuo, M: GA-07  
 Matsuo, M: EQ-03  
 Matsuo, T: CF-12  
 Matsushima, K: **GR-02**  
 Matsushita, T: AC-07  
 Matsuya, Y: DQ-05  
 Matsuzaka, M: DF-04, **DF-07**  
 Matsuzaki, H: CE-04  
 Matt, E: BF-04, CA-07  
 Mattoni, G: AE-02  
 Maucha, L: BR-13, DG-05  
 Maurya, A: **GG-03**, HG-07  
 Mayoh, D: CB-07, DC-11  
 Mayr, E: CD-07  
 Mayr, S: FB-05  
 Maz, A A.: **HQ-01**  
 Mazet, T: GB-03  
 Mazzoli, C: **FE-13**  
 McConney, M: CE-06  
 McDonough, C: HA-02  
 McGuire, M: GF-06  
 Mckenzie, J: **GR-05**  
 McKenzie, R D.: **EG-12**  
 McKenzie, T F.: CP-08, **HR-11**  
 McMorran, B: **BE-07**, DH-07  
 Medina Dueñas, J E.: CC-05  
 Medwal, R: AD-08  
 Mehrnejat, A: FF-04  
 Mehta, R: AR-16, BR-09, GG-08  
 Mehta, S: CA-07  
 Mejia, J: **GP-14**  
 Mencos, J: DB-09  
 Mendes, J B.: BB-04  
 Mendonca, H A.: DR-14  
 Mendonça, A A.: CP-10, **GE-09**  
 Mendonsa, R A.: **AQ-03**  
 Mendonsa, R: **CS-11**  
 Meneghini, C: HE-11  
 Menezes, J R.: EQ-04  
 Mentink, J: AR-03, FB-04  
 Meo, A: CA-07  
 Merino-Martinez, J: CD-03  
 Miao, G: CC-02  
 Miao, J: CB-08  
 Michal, O: AC-05  
 Michez, L: DB-09  
 Micus, L: BB-07  
 Migot, S: EB-07, HE-06  
 Mihajlović, G: AE-03, CA-04  
 Mihalik, M: HR-01  
 Mijit, E: FR-11  
 Mikhaylovskiy, R V.: CH-03, **FB-03**, GC-06  
 Miki, S: AF-05, **GP-03**  
 Millet, A: BA-07  
 Mills, S C.: **FR-06**  
 Milone, M: BE-11  
 Mimura, I: EQ-15LB  
 Mimura, R: FQ-09  
 Minakawa, R: AC-07  
 Minhas, M: CR-13, HC-03  
 Minu, M: **FQ-02**  
 Minuti, A: ER-08  
 Mion, P: DC-05  
 Mion, T R.: **GE-03**, **HR-15**  
 Mirzakhani, M: AC-12  
 Misawa, R: FE-10  
 Mishra, A: EP-14LB  
 Mishra, R: DR-01LB  
 Mishra, S: GR-15  
 Mitani, S: DF-08, EF-03  
 Mitchell, P: BE-02  
 Mito, M: FE-03  
 Mitsumata, C: AB-09, **AE-09**  
 Mitsuzuka, A: **DF-06**, FP-01  
 Miura, S: XA-01  
 Miura, S: AQ-02, **BP-06**  
 Mivelle, M: **AF-07**, **FF-13**, **HF-12**  
 Miwa, S: BF-06, CB-02, DF-07, EG-02, HG-04  
 Miyahara, S: HB-09  
 Miyai, Y: AC-07  
 Miyajima, K: **ER-13**  
 Miyamoto, Y: AR-08  
 Miyasaka, Y: CR-09  
 Miyashita, H: BG-01  
 Miyata, T: AQ-16  
 Miyawaki, H: EC-03, GD-03  
 Miyazaki, D: GR-16  
 Miyazaki, T: DP-02  
 Mizoguchi, T: **AQ-06**  
 Mizrahi, F A.: FD-05  
 Mizukami, S: AF-05, FD-08  
 Mizuno, M: FP-03, GF-07

Mizuta, S: **AQ-07**  
Mochizuki, M: **HF-04**  
Mochizuki, S: **BP-01**  
Modak, R: **EG-03**  
Moedl, E: **GA-07**  
Moghal, B: **HR-08**  
Mohammadi, M: **DR-07, DR-16**  
Mohan, J R.: **CR-14**  
Mohapatra, J: **BG-10, CP-12, CP-13, EE-05**  
Mohapatra, S: **CD-10**  
Mohapatra, S: **CD-10**  
Mohr, R: **TEST-01, TEST-02**  
Mok, Y: **GQ-16**  
Mokkapaty, S: **BE-11**  
Mokrousov, Y: **BB-07, CG-08, DR-10, FG-10**  
Molčanová, Z: **HR-01**  
Molinales Ponce, M: **ER-02, ER-05**  
Mollard, N: **CE-01, DE-04**  
Momota, F: **DP-02**  
Mondal, A: **EG-05**  
Mondal, S: **EP-14LB**  
Monson, T C.: **FA-02**  
Montagnese, M: **FC-15**  
montaigne, f: **GC-09**  
Monteblanco, E: **GR-07, HC-03**  
Montoya, E A.: **AG-07**  
Montoya, S: **CB-08, DH-07, HB-01**  
Montoya-Santiyanes, L: **XA-01**  
Moodera, J S.: **DA-07**  
Moody, S: **DC-11**  
Moon, J: **GQ-04**  
Moon, J: **BQ-05, BQ-08, CQ-10, DQ-10**  
Moon, K: **HF-11**  
Moon, K: **AC-12, BC-04, BC-09, BP-10, EE-11, FR-07, FR-08**  
Moore, G C.: **GC-11**  
Morales, R: **GC-02**  
Morales, R: **ER-15**  
Moreau, J: **FP-13**  
Moreira, A: **BP-08**  
Morel, R: **BA-07**  
Mori, S: **CC-15**  
Moriki, T: **AC-07**  
Morishima, Y: **GQ-07**  
Morishita, H: **BP-14**  
Morita, T: **EG-03**  
Moriyama, T: **BD-11, EF-02, FD-08**  
Morley, S A.: **EF-13, GF-05**  
Morone, F: **FD-11**  
Morris, E R.: **BP-05LB**  
Mosina, K: **DA-07**  
Mossang, E: **AE-07, GP-09**  
Mostufa, S: **CD-04, ER-05, ER-06**  
Motokawa, R: **FR-10**  
Moureaux, A: **CR-05**  
Msiska, R: **FG-11**

Mucchietto, A: **DH-11**  
Mudryk, Y: **BG-06, ER-10, FP-14, GP-11, GR-11, HR-09**  
Muduli, P K.: **AG-12, CR-12, DR-15, HC-08**  
Muduli, P K.: **CF-15**  
Muhammad, W: **DE-07**  
Mühlbauer, S: **AC-13**  
Mukherjee, M: **DA-01**  
Müller, M: **FB-06**  
Mullurkara, S: **DD-05**  
Munekata, H: **CH-08**  
Muraca, D: **EQ-04**  
Murakami, C: **DE-03, GD-11**  
Murapaka, C: **GQ-03, HQ-11**  
Murayama, T: **EQ-06**  
Murnane, M M.: **CB-08**  
Muroga, S: **DP-02, EP-05**  
Murray, A: **FC-05**  
Muthukrishnan, K: **GP-08**

**N**  
N'Diaye, A T.: **EE-10**  
Na, I: **ER-07**  
Na, M: **AR-13LB**  
Na, S: **EP-10**  
Naemi, A: **DA-02**  
Nag, J: **ED-10, EE-12, FP-10**  
Nagahara, Y: **AQ-15**  
Nagao, A: **AR-01**  
Nagaoka, R: **AB-09**  
Nagata, U: **CF-01**  
Nair, S: **AC-06, AG-11**  
Naka, M: **EF-10**  
Nakagawa, K: **EQ-01**  
Nakagawa, T: **FR-14**  
Nakamura, R: **CC-04**  
Nakamura, S: **BP-14**  
Nakamura, Y: **AA-02, BD-04**  
Nakamura, Y: **FE-10**  
Nakamura, Y: **DE-06**  
Nakane, R: **BP-13, CR-09, FF-02, HE-05**  
Nakanishi, Y: **CC-15**  
Nakano, A: **FR-10**  
Nakano, R: **FE-10**  
Nakano, T: **AQ-04, DF-02**  
Nakao, H: **FE-10**  
Nakashima, K: **AG-04**  
Nakashima, M: **ER-04**  
Nakatani, O: **BR-14**  
Nakatani, T: **DE-03**  
Nakatani, Y: **BR-03, DR-16**  
Nakatsuji, S: **BF-06, CB-02, CF-12**  
Nakayama, H: **AQ-16**  
Nakayama, S: **GQ-14**  
Nakazawa, K: **BA-05**  
Nakazono, T: **AF-06**  
Nam, D: **AG-05, CG-04**

Nam, K: **DB-01**  
Nambu, Y: **HQ-13**  
Namikawa, M: **BE-11**  
Nan, T: **AG-08**  
Nandakumaran, N: **HC-02**  
Nangaku, M: **EQ-15LB**  
Nara, T: **GR-02**  
Narangerel, B: **CP-11, CP-14, HD-08, HR-04**  
Naranjo, S B.: **ER-10**  
Narducci, D: **CA-03**  
Narmandakh, J: **HD-08**  
Narushima, Y: **XA-01**  
Nascimento, V P.: **AE-07, GP-09**  
Nasri, I: **BE-12**  
Natekar, N A.: **AA-07**  
Natsume, K: **EB-03**  
Naud, C: **BA-07**  
Naunheimer, F: **BR-13, DG-05**  
Naushin, N: **DC-08, EE-10**  
Nava Antonio, G: **AF-04, FE-11**  
Navas, D: **CD-01**  
Nazarov, A: **GR-01**  
Ndaru, K N.: **CP-08, HR-11**  
Neeha, S A.: **HA-05**  
Neethirajan, J: **CB-07**  
Negishi, E: **BG-01, GG-11, HR-03**  
Nelson, B: **HA-04**  
Nembach, H T.: **AE-03, DS-14LB, DS-15LB, EG-07**  
Nepal, S: **EG-09**  
Neu, J: **CG-05**  
Neu, V: **BE-03**  
Neuefeind, J: **DC-06**  
Neupane, M: **FQ-01**  
Neupane, M: **AR-06**  
Ng, V: **CS-01**  
Nguen, T: **AG-02**  
Nguyen, B: **HR-13**  
Nguyen, K: **HB-01**  
Nguyen, M: **DP-14**  
Nguyen, P: **FR-20LB**  
Nguyen, S: **EE-10**  
Nguyen, T T.: **BR-10**  
Nguyen, T: **FQ-10**  
Nguyen, V: **AG-10, FD-03, FD-07**  
Nguyen T. Tran, L: **AE-04, BA-02, CD-04, GR-06**  
Ni, H: **HR-05**  
Ni, N: **GB-08, HQ-15**  
Nicolas, A: **BA-07**  
Nihal, I: **EF-13, HC-07**  
Nihei, K: **FE-07**  
Niimi, Y: **AG-01, AG-04, CC-04, HQ-13**  
Nikolić, B: **CH-06**  
Nishi, H: **EQ-15LB**  
Nishijima, T: **CG-03**  
Nishio-Hamane, D: **CF-12**

Niu, W: CC-03  
 Nlebedim, C I.: BG-09  
 Nlebedim, I C.: AP-02, **AP-03**, **BG-08**, HP-01  
 Nnokwe, C: CC-06  
 Noebe, R D.: FA-03, HR-13, HR-14  
 Noh, K: ER-07  
 Noh, S: DQ-16  
 Noh, Y: BQ-04, CQ-04, **DQ-11**  
 Nohara, K: DE-05  
 Nojiri, H: GB-06  
 Nomoto, T: DB-02  
 Nomura, H: GP-03  
 Novikov, D: HE-11  
 Novosad, V: CE-05, EG-13, FB-02  
 Nowadnick, E: FQ-12  
 Nowak, U: AF-11, BC-01  
 Noyan, M: AF-03  
 Nozaki, T: DF-07, FF-05, GP-03  
 Nozaki, T: FF-05  
 Nozaki, Y: AR-01, BP-16LB, DR-09  
 Nukui, K: AF-05  
 Numazawa, T: EB-03  
 Nuñez-Murillo, F: GP-14  
 Nyári, B: **FG-13**, **FR-17LB**

## O

O'Brien, L: BC-05  
 Obeid, P: BA-07  
 Oberdick, S: **AE-08**, FA-06  
 Ocker, B: CR-13  
 Odawara, S: EP-01  
 Odkhuu, D: **HD-08**  
 Oezelt, H: CP-05  
 Ogasawara, T: DD-08  
 Ogawa, D: BD-03  
 Ogawa, G: EQ-15LB  
 Ogawa, N: CF-10  
 Ogawa, T: DD-12  
 Oh, H: **BP-09**  
 Oh, J: EQ-10  
 Oh, S: **BQ-09**, CQ-15  
 Oh, S: ER-07  
 Ohara, K: BA-05  
 Ohe, J: AG-01  
 Ohishi, K: EE-02, FE-03  
 Ohkochi, T: CB-02  
 Ohkubo, T: AB-08, DF-04, DF-08, EF-03, EG-03, GD-03  
 Ohno, Y: GA-06  
 Ohodnicki, P: **DD-05**  
 Ohresser, P: FP-13  
 Ohshima, R: CF-01, CG-03, EG-05, FB-06  
 Ohsumi, H: FE-10  
 Ohta, A: EQ-03  
 Ohtake, M: AP-10, DE-06, HD-09, HE-07  
 Ohtani, M: BP-02

Ohtani, T: CE-10  
 Ohtsuki, T: FR-02  
 Oikawa, T: EC-03  
 Ojo, A I.: FP-10  
 Ok, H: **FC-03**  
 Okabayashi, J: **BG-02**, EF-03, **GD-11**  
 Okada, A: DS-09  
 Okada, H: **CP-09**  
 Okada, Y: AQ-07  
 Okamoto, I: BD-06  
 Okamoto, S: DD-08, DD-09, DP-14, FA-08, GD-05, GD-06  
 Okamoto, Y: BD-04  
 Okamura, Y: FE-10  
 Okawa, M: AR-14  
 Okazaki, R: **DF-04**  
 Okita, K: AQ-10  
 Okumura, S: DB-02, **EE-01**  
 Okumura, S: BP-07  
 Okuyama, Y: AQ-10  
 Oliphant, E: GD-13  
 Oliveira, F: FE-05  
 Oliveira, G: EB-06  
 Olivier Gourmelon, P: HD-10  
 Olson, T: AA-07  
 Olsson, R: GE-03  
 Omori, T: DP-09  
 Omura, T: BE-11  
 Onishi, K: CE-04  
 Onishi, N: EC-04  
 Onishi, Y: DA-07  
 Ono, K: DD-09  
 Ono, N: **DD-08**, DD-09  
 Ono, S: DP-01  
 Ono, T: BE-05, BP-01, CF-04, DS-04, **FD-01**, FF-06, FP-07, HQ-05  
 Ono, T: EE-02, GB-06  
 Ono, Y: CR-14  
 Onoda, S: BP-14  
 Onuma, T: **DR-08**  
 Oogane, M: AQ-04, CE-04, DF-02, DP-01, DR-13  
 Ordóñez Romero, C L.: **BR-12**  
 Orero-Gámez, G: DH-10  
 Orito, T: FR-15  
 Orlita, M: AC-05  
 Oroszlány, L: CC-14, FG-02  
 Ortega, L: AE-07, GP-09  
 Ortner, M: FC-02  
 Oshima, D: FP-07  
 Ostroverkhova, O: AC-11  
 Osumi, Y: CS-09  
 Otani, Y: GG-02  
 Otero, E: FP-13  
 Otsuka, Y: GG-11, **HR-03**  
 Oue, D: GA-07  
 Oulton, R: GC-05  
 Ovari, T A.: **EP-04**

Overboom, T: BE-11  
 O'Mathuna, C: **FA-04**, FA-05

## P

P, M: CF-15  
 P. N., S: CF-15  
 Packer, L: FC-05  
 Padgett, A S.: DD-11  
 Page, M: CE-06  
 Pagliuso, P: FE-05  
 Pakuszewski, K R.: FE-05  
 Pal, P K.: AR-16, FB-02  
 Pal, P: BE-06  
 Pal, P: **CE-05**, **EG-13**  
 Pal, P: CE-09  
 Palasyuk, A: BG-06, EC-12  
 Palasyuk, O: EC-12  
 Palczynski, P: HD-04  
 Palczynski, P J.: **HD-07**  
 Paleo, C: CS-03  
 Palomino, A: CA-03, FD-03  
 Palomino Lopez, A: AG-10, FD-07  
 Paltiel, Y: HE-10  
 Pan, A V.: **AD-11**  
 Pan, C: DR-05  
 Pan, C: EC-08, **EC-10**  
 Pan, F: AP-05  
 Panda, J: FB-05  
 Pandey, L: BF-11, FB-09  
 Pané, S: CD-03, HA-04  
 Pannetier-Lecoeur, M: CE-01, DE-04  
 Pantano, G M.: FG-10  
 Papp, A: AR-12, BR-13, DG-02, DG-05, DG-06  
 Parchinskiy, P: CC-03  
 Pardo-Sainz, M: EE-02, FE-03, GB-06  
 Parella, J: DS-14LB  
 Parente, A: FP-11  
 Pargon, E: CA-09  
 Parida, T: BG-08  
 Park, A M.: AG-05, BR-05, **BR-11**, CH-05, FF-10  
 Park, B: HF-11  
 Park, B: AG-05, BR-05, CF-07, **CG-04**, DR-04, DR-06, FF-10, GQ-12, HQ-06  
 Park, E: DA-07, HE-08  
 Park, H: **DQ-15**  
 Park, J: AF-09  
 Park, J: **EC-13**  
 Park, J: CQ-02, CQ-11, CQ-13, DQ-01, **DQ-02**, HP-06, HP-10  
 Park, J: AQ-13  
 Park, J: BR-10  
 Park, K: GD-05, **GD-06**  
 Park, M: BQ-04, CQ-04  
 Park, S: BQ-07, CQ-09, CQ-10, HP-16  
 Park, S: DP-03, DP-15, DQ-14, EP-02  
 Park, S: GQ-15

Park, S: AC-02  
 Park, S: CC-12, HF-11  
 Park, T: **BC-03**  
 Park, W: EQ-07, EQ-08  
 Park, Y: **AR-04LB**  
 Park, Y: ER-07  
 Parker, D: EC-12, **HD-02**  
 Parkin, S: BF-02, CF-05, DH-06, FG-03, **GF-01**  
 Parmar, H: AP-03, **BG-09**  
 Parmeggiani, C: AD-12  
 Parvez, N: CH-06  
 Paslar, M: **EQ-05**  
 Passamani, E C.: AE-07, GP-09  
 Patel, A: **DE-03**  
 Patel, R: DA-06  
 Patil, S: **GB-02**  
 Patrickson, C: HG-02  
 Patterson, E: FR-06  
 Paudel, J R.: HC-11  
 Paul, A: GD-01  
 Paul, A: DC-06  
 Paul, N: AG-10  
 Paul, N: CD-04  
 Paul, S: **AE-02**  
 Paulsen, L: CS-06  
 Pauriche, B: AF-07  
 Pawlak, J: **HC-05**  
 Payen, L: CD-05  
 Paz Gonzalez, K: AE-04, **BA-02**, **ER-02**  
 Pedersoli, E: GC-07  
 Pedrós, J: DH-10  
 Pellet-Mary, C: BC-01  
 Pellizzi, N: EG-11  
 Peña Serna, J D.: **GR-12**  
 Peng, S: EA-06, EA-08  
 Percival, S: DD-11  
 Pereira, A: DS-01  
 Peremadathil-Pradeep, R: HF-05, HF-09, HF-10  
 Peria, W K.: DS-14LB, **EG-07**  
 Peridon, L: CF-03  
 Pershad, I: AR-16  
 Perversi, G: EP-07  
 Pervin, R: AD-08  
 Peterson, C L.: EQ-05  
 Peterson, K J.: BP-05LB  
 Petford-Long, A: CC-03  
 Petit-Watlot, S: AG-13  
 Petrache, H: GR-09  
 Petrelli, G: BE-08  
 Petrun, M: **DS-03**  
 Petrucci, P: BD-12  
 Petty Gweha Nyoma, D: GC-09  
 Pezo, A: FG-08, GA-02  
 Pfaff, W: DG-09  
 Pfeiderer, C: FE-02  
 Pham, T: CC-10

Phan, D M.: CD-04, GR-06  
 Phan, M: ED-10, EE-12, FG-10, FQ-10  
 Phatak, C: CC-03, FB-02  
 Phelan, D: DC-06  
 Pi, J: **BR-10**  
 Piao, X: BF-06, CA-03  
 Piccyk, M: CD-05  
 Pinna, D: FD-04  
 Pinto, R F.: GP-10  
 Pinto, R M.: EB-06  
 Piovano, A: GB-03  
 Piramanayagam, S: HQ-08  
 Piraux, L: AD-01  
 Pirro, P: AR-12, DG-02, DG-06, FB-05  
 Pirruccio, G: BR-12  
 Pishehvar, A: DG-07  
 Pittala, S: **FQ-14**  
 Piva, M: FE-05  
 Pizzi, H B.: FE-05  
 Pleimling, Y: CH-08  
 Plissard, S: CC-10  
 Plumb, K: **GB-05**  
 Poelman, H: GR-03  
 Pokhrel, N: **EC-12**, HD-02  
 Pollock, C J.: HR-09  
 Pop, E: HE-03  
 Popescu, H: CB-09, GP-09  
 Porro, J: **EB-05**, GC-02  
 Porter, T: CC-06, FQ-16, FR-20LB  
 Pospíšil, J: HR-01  
 Pospíšil, J: **AC-05**  
 Poulo, A S.: AP-09, CD-08, EQ-09  
 Pourovskii, L: BB-07  
 Powell, A: HR-18LB  
 Powell, L D.: GG-06  
 Pozsár, D T.: FG-02  
 Prabhakaran, D: AG-11  
 Pradhan, G: DC-04  
 Pradhan, S: **CF-13**  
 Prakash, A: CS-04  
 Prasad, B: BR-07  
 Prasad, K: EG-01  
 Prejbeanu, I: CA-09  
 Prida, V M.: CP-10, GE-09  
 Priese, C: DD-06  
 Prieto, J: DH-10, FP-11  
 Priyadarsini, M: **AE-10**  
 Prokleška, J: FE-09  
 Proschek, P: FE-09  
 Pu, Y: CH-02  
 Puebla, J: EG-05, GG-02  
 Pufall, M: AE-03, DS-14LB, **DS-15LB**, EG-07  
 Pulse, M: EF-08  
 Pushin, D: HF-06  
 Pustovalov, V: HA-04  
 Puthirath Balan, A: **BC-01**

**Q**  
 Qi, J: AP-05  
 Qian, T: HQ-15  
 Qiao, K: EB-08  
 Qin, J: BG-03  
 Qiu, X: **DR-05**  
 Qiu, Z Q.: CC-09  
 Qu, D: BF-07, DA-05, FP-06  
 Qu, Z: HC-04  
 Querlioz, D: GP-08  
 Quessab, Y: **AA-03**  
 Quigley, L: FC-05  
 Quinsat, M: CA-05, **DH-05**  
 Qureshi, N: BR-12

**R**  
 R, R: EP-14LB  
 Raboni Ferreira, M: CB-07  
 Rackham, J: GR-17LB  
 Radaelli, P: EF-09  
 Radhakrishnan, P: HG-05  
 Radhakrishnan, R: EP-13LB  
 Radovskaia, V: AR-13LB  
 Radu, C: **AP-06**  
 Raftrey, D W.: AD-02  
 Rageau, T: FD-05  
 Rahmanovic, E: DS-03  
 Rai, A: HG-09  
 Raimondo, E: EA-04  
 Raiymbekov, Y: XA-01  
 Raja, A: EC-12  
 Rajestari, Z: CS-06  
 Rajib, M: ED-06, FD-09  
 Rama-Eiroa, R: **FG-06**  
 Ramanathan, M: EP-06, **HC-09**  
 Rames, M: HR-19LB  
 Ramesh, R: FB-08  
 Ramos, L: AF-02  
 Rana Muhammad, S: BE-12, **EA-09**  
 Ranno, L: CE-01, DE-04  
 Rao, S: AG-10, **CA-03**, FD-03, FD-07  
 Raposo, V: CH-07  
 Rappoport, T G.: **CG-09**  
 Rashid, M: CS-05, **GR-08**  
 Ratha, S: **BD-02**  
 Rauf, A: **GD-13**  
 Ravel, B: DS-15LB  
 Ravelosona, D: **GR-07**, **HC-03**  
 Ravipalli, C: HD-10  
 Rayat, A: BR-17LB  
 Raznjevic, S: EB-07  
 Reddinger, J A.: **DH-07**  
 Reese, B L.: BD-07, **BD-10**  
 Regmi, A: **AF-02**, AF-09  
 Rego, S E.: **BE-04**  
 Rehman, A: DS-05  
 Reichhardt, C: FG-11  
 Reichhardt, C J.: FG-11

Reichlova, H: **DB-09**  
 Reiser, P: BC-01  
 Remy, Q: CH-07  
 Ren, Y: GG-09  
 Rentzber, N: **GG-07**  
 Repcek, D: AC-05  
 Reyes, A: FP-13  
 Reyes, G: FQ-01  
 Reyren, N: CB-09, DH-11, GA-02, GC-07, HF-12  
 Reza, S: GR-09  
 Rezaei, B: CD-04, ER-02, ER-05, ER-06, FC-01  
 Rial, J: DB-09  
 Richardson, C: DA-04  
 Richter, H J.: BA-04, CA-04  
 Ricolleau, C: CS-03  
 Riley, C R.: DD-11  
 Rinaldi, C: **DA-03, FG-08**  
 Río-López, N: EB-05  
 Rippard, W: DS-14LB  
 Rivelles, A: **DH-10, FP-11**  
 Rizzi, P: DC-04  
 Roche, S: CC-05  
 Rodriguez, E: BA-02  
 Rodriguez, L: CS-05, CS-07, GR-08, GR-14  
 Rodriguez Caballero, S: AE-04, ER-02  
 Rodríguez Jiménez, P A.: DD-13, EP-03  
 Rodriguez Velamazán, J: EB-05, EE-02  
 Roduit, L: GB-03  
 Roessli, B: GB-03  
 Rogalev, A: FP-13  
 Rogers, D: **FC-12**  
 Rogers, V C.: BF-04, **GQ-08, HE-12**  
 Rogers, W: CA-07  
 Rojas, G: EE-03  
 Rojas-Sanchez, C: AG-13  
 Romhanyi, J: EF-13  
 Rondinelli, J M.: CA-07  
 Ronning, F: FE-05  
 Rosenkranz, S: DC-06  
 Roshandel, H: GB-08  
 Ross, C A.: BR-04, DG-11, FB-05, FQ-05, HC-10, HE-08  
 Ross, F: DA-07, HE-08  
 Rosseinsky, M: AB-04  
 Rothe, J: EB-01  
 Rothhardt, D: HF-10  
 Rothörl, J: HF-14  
 Rotter, S: HG-08  
 Rougemaille, N: AE-07, GP-09  
 Rouxel, M: FR-13  
 Rova, K: AE-04, ER-02  
 Rovirola, M: CC-13  
 Roy, K: **DA-01**  
 Roy, S: EF-13, GF-05  
 Roy Chowdhury, M: EF-03

Roy Chowdhury, R: ED-10, EE-12  
 Rozprym, M: DC-07, FQ-10  
 Rózsa, L: CC-14, FR-17LB  
 Rubi, K: **FE-01**  
 Ruiz Gómez, S: DH-10  
 Russo, L: FC-05  
 Rychly-Gruszecka, J: HD-04  
 Rymski, G: FQ-10  
 Ryu, H: BC-04, BC-09, BP-10, **FR-07**, FR-08  
 Rzechowski, M: BE-06

## S

Saavedra, E: DS-01  
 Saavedra Díaz, E A.: AR-15  
 Sabaysachi, S: EQ-05  
 Sabirianov, R: CC-02, GQ-13  
 Sabyasachi, S: **ED-06, FD-09**  
 Sadler, C: CC-06  
 Saenz Rodriguez, A: AC-11  
 Safeer, C: **FD-04**  
 Sagayama, H: FE-10  
 Sah, R K.: HC-11  
 Saha, S: CF-15  
 Saha, S: **AR-16, BR-09, GG-08**  
 Sahni, N: **GG-09**  
 Sahoo, A: AG-12, DR-15  
 Sai, R: FA-05  
 Said, A: GR-19LB  
 Saijo, K: ED-09  
 Saito, A T.: **EB-03**, HR-07, **HR-16**  
 Saito, M: FP-07  
 Saito, S: ER-12, GR-16  
 Saito, T: **AP-08, CP-03**  
 Saito, Y: **AG-02**  
 Saitoh, E: BB-07, FB-01  
 Saiz Garitaonandia, J: GE-01  
 Saji, C: AR-15  
 Sakai, H: FE-09  
 Sakamoto, A: **AQ-04**  
 Sakamoto, K: AQ-14  
 Sakamoto, S: BF-06, **CB-02**, EG-02  
 Sakuraba, Y: DE-03, DF-09, EG-03  
 Salaheldeen, M: DD-13, EP-03  
 Salazar, D: EB-05  
 Salazar, H: HB-07  
 Sales, B: EC-12  
 Sall, M: BR-07  
 Salomoni, D: CA-09  
 Samanta, V: **AC-03**  
 Samolyuk, G: EC-12  
 Samukawa, Y: **AG-04**  
 Sanchez, M: HA-04  
 Sandberg, R: GR-17LB  
 Sands, J: CB-05  
 Sangeeth, K: AD-10  
 Sanghadasa, M: CE-06  
 Sankar, R: FF-01

Sankar Kar, G: CA-03, FD-07  
 Santos, E: BB-04  
 Santos, E: CC-03, FG-06  
 Santos, R C.: FE-05  
 Santos, T: AE-03, **CA-04**  
 Sanz, M: DH-10, FP-11  
 Sanz Hernandez, D: CR-07, CR-11, FD-05  
 Sapkota, A: GR-08  
 Saqib Arshad, R: DS-06  
 Sarenac, D: HF-06  
 Sasaki, I: AG-01  
 Sasaki, S: DR-02  
 Sasaki, T: FR-02  
 Sasaki, Y: AA-04, AF-06, BD-02, BD-03, **FF-12**  
 Sasayama, T: AQ-01, AQ-15  
 Sassi, Y: GR-07, HC-03  
 Sastges, M: DR-10  
 Satapathy, S: AD-02, CB-05  
 Sato, J: **FR-12**  
 Sato, S: **FF-02**  
 Sato, S: AC-07  
 Sato, S: **AQ-01**  
 Sato, T: **DP-09**  
 Sato, Y: BF-03  
 Satoh, T: AF-06, BP-01  
 Satou, T: CP-04  
 Säubert, S: **EB-01**  
 Savadkoohi, M: BP-12  
 Savostin, E: **GG-10**, HG-05  
 Saxena, A: AG-12, CR-12, **DR-15**  
 Saxena, A B.: FG-11  
 Scheike, T: DF-08, **FF-05**  
 Scheuer, L: CH-06  
 Schiff, H: EF-13  
 Schlagel, D: EC-12  
 Schleife, A: HR-05  
 Schmalian, J: AE-02  
 Schmid, A: CR-15  
 Schmid, M: BE-11  
 Schmidig, A: GP-11  
 Schmidt, H: AQ-09, CE-06  
 Schmitt, C: AF-11, BB-07  
 Schneider, M: DS-14LB  
 Schoener, B: **AB-03**  
 Scholz, T: BC-01  
 Schrader, C: BC-01  
 Schrefl, T: BG-07, CP-05, DD-05, DS-11  
 Schuller, I K.: HQ-15  
 Schultheiss, H: FB-04, HG-10  
 Schultheiss, K: FB-04, HG-10  
 Schulz, N: FP-10  
 Schumer, A: HG-08  
 Schüßler, P: EB-01  
 Schust, J: AR-02  
 Schütz, G: DH-11  
 Schwefel, H: HG-08

- Scott, E F.: **FA-02**  
 Sears, J: **AF-01**  
 Sebal, G: DE-05  
 Sechovsky, V: AC-05  
 Seethapathi, N: HA-01  
 Seifner, M: AE-05  
 Seiner, H: GE-07  
 sekiguchi, n: CE-02  
 Sekino, M: CE-02, EQ-15LB, FC-06, HA-09  
 Sekita, D: FR-05  
 Sels, D: FD-11  
 Semsari Parapari, S: EB-07, HE-06  
 Seng, B: GC-09  
 Seo, H: **DR-06**  
 Seo, J: AR-07, BC-04, BC-09, **BP-10**, EE-11, FR-07, FR-08  
 Seo, J: **HQ-06**  
 Seo, J: DP-03, DP-15, EP-02  
 Seo, M: BQ-03, CQ-06, HP-07, **HP-08**  
 Sepehr, M: DH-10  
 Sepehri-Amin, H: AA-06, AB-08, DP-12, EB-02, EB-03, EC-05, GD-03  
 Sergeev, I: AE-10  
 Setescak, A J.: **BE-02**  
 Setti, G: BE-12, CE-09, CR-02, EA-09  
 Sha, Y: HR-06  
 Shabaev, D: **GG-11**, HR-03  
 Shafer, P: HC-11  
 Shafiei, A: GF-09  
 Shahbaz, R: DS-05, DS-06  
 Shahee, A: BC-01  
 Shahriar, M: ER-05, ER-06  
 Shalihotri, Y V.: GQ-03  
 Shand, P: CC-06, FQ-01, FQ-16, FR-20LB  
 Shang, W: **EE-09**  
 Shao, Q: **EA-02**, EA-06, GG-02  
 Shao, Y: GR-13  
 Shapiro, D: CB-08, GR-17LB  
 Sharif, B: CC-11, EF-13  
 Sharma, L: **DB-03**  
 Sharma, P: ED-10, **EE-12**, FP-10  
 Sharma, S: DC-10  
 Sharma, T: AR-16  
 Sharma, V: GF-03, **GF-10**  
 Sharma, V: AQ-09, CE-06, GF-08, GF-10  
 Sharmin, S: AE-09  
 Shearer, B: CB-08  
 Shekhar, C: CB-07  
 Shen, J: **BE-10**  
 Shen, Z: BF-07  
 Sherman, S G.: EQ-13  
 Shi, J: FQ-13, HQ-15  
 Shi, S: BB-06  
 Shi, Z: FE-06  
 Shibata, Y: DF-04  
 Shield, J: AP-06, **GD-01**  
 Shigeta, I: FR-03, FR-04  
 Shiku, K: GR-02  
 Shilna, K: **FQ-04**  
 Shim, W: **DS-10**  
 Shima, M: FP-07  
 Shimada, K: AC-07  
 Shimamoto, Y: AG-01  
 Shimano, T: ER-12  
 Shimizu, S: AC-07  
 Shin, D: GE-10  
 Shin, D: HP-15  
 Shin, G: BQ-02, CQ-03, **HP-09**  
 Shin, H: CQ-05  
 Shin, H: DQ-09  
 Shin, H: BP-10  
 Shin, J: **BR-08**  
 Shin, K: BQ-01, BQ-02, BQ-03, BQ-06, BQ-11, BQ-12, BQ-14, CQ-02, CQ-03, CQ-06, CQ-07, CQ-08, CQ-11, CQ-13, CQ-14, CQ-16, DQ-01, DQ-02, DQ-06, DQ-09, HP-04, HP-06, HP-07, HP-08, HP-09, HP-10  
 Shin, M: DQ-13  
 Shin, S: DR-01LB  
 Shin, S: **DR-04**, DR-06  
 Shinkai, T: EF-02, **FD-08**  
 shinohara, t: DP-12  
 Shinohara, R: ER-11  
 Shiomi, J: EG-03  
 Shiota, Y: CF-04, DS-04, FF-06, **GC-01**, GP-03, HQ-05  
 Shiraishi, M: CC-05, CF-01, CG-03, EG-05, FB-06  
 Shirasaki, T: EE-07, **FQ-08**, GQ-14  
 Shiu, H: BR-16LB, FR-19LB  
 Shoji, H: AG-01, CC-04  
 Shoriki, K: FE-10  
 Shoup, J E.: DC-03, DP-04  
 Shrestha, S: **CH-06**  
 Shreya, S: **EA-03**  
 Shukla, G K.: BD-02, CG-01  
 Si, M: GC-10  
 Siao, J: **CC-08**  
 Sibi, H: BD-02, **BD-03**  
 Sibille, R: GB-03  
 Siddiqua, T: HA-02  
 Sierra, J F.: CC-05  
 Sihombing, R R.: **DF-08**  
 Sihom Kwekam, D: EB-07  
 Silber, R: BG-04  
 Silva, G V.: CC-02  
 Silva, J O.: EB-06  
 Silva Freitas, G: FE-05  
 Silva Sales, F H.: BR-15  
 Sim, J: **GQ-16**  
 Singh, A: BF-07  
 Singh, H: CR-11  
 Singh, K: CR-06  
 Singh, M: **HE-11**  
 Singh, P: GP-11  
 Singh, R: GG-03, HG-07  
 Singh, S: AE-10, **BR-07**  
 Singh, S: AF-09  
 Sinova, J: BB-07, BC-01, DB-09  
 Sirica, N S.: AF-03  
 Sirimanna, S: CQ-12  
 Sivakumar, P: **CF-05**  
 Skowronski, W: **AG-08**, HC-05  
 Slanovc, F S.: ED-03, FC-02  
 Slavina, A N.: DG-07  
 Slawinska, J: **BB-05**  
 Slezak, M: **FP-08**  
 Slezak, T: FP-08  
 Smaga, M: **DE-10**  
 Smaha, R W.: **HD-06**  
 Smaliukas, P: FC-15  
 Smejkal, L: DB-09  
 Smith, D E.: CS-05  
 Smith, J: **ED-03**  
 Smith, M A.: GE-08  
 Smith, N: CH-08, DA-04  
 Smith, S: **ER-10**  
 Smith, X: **CD-09**  
 Snarski-Adamski, J: HD-04  
 Snyder, C: XA-02  
 Snyder, G: DP-10  
 Soares, A: GR-11  
 Sofer, Z: AC-11, DA-07  
 Soh, Y: GB-03  
 Sohn, C: **GB-09**  
 Sohn, Y: DD-03  
 Soldatov, I: BE-03  
 Solignac, A: CE-01, DE-04  
 Solzi, M: EB-07  
 Son, B: DR-01LB  
 Son, H: **HC-02**  
 Son, J: HF-11  
 song, l: EF-04  
 Song, C: **BF-01**  
 Song, D: BB-06  
 Song, H: ER-07  
 Song, J: **GP-02LB**  
 Song, M: **CA-02**  
 Song, M: BR-05, CE-05, DG-09, EG-13  
 Song, S: CC-12  
 Song, S: **BQ-10**  
 Song, S: CQ-15  
 Song, Y: **DQ-04**  
 Soon, Y: **BR-05**, BR-11  
 Sorrentino, A: AD-02, AD-03, CB-05  
 Sousa, R: CA-09  
 Sow, C: AE-02  
 Spaldin, N A.: HC-11  
 Spallek, J: EB-01  
 Srikanth, H: CD-10, ED-10, EE-12, FP-10  
 Srinivasan, K: FA-03

Srivastava, T: DH-11  
 Stadler, B: **BA-06**, EP-09, **HR-08**  
 Stamps, R L.: EG-12  
 Stanfield, H R.: **FF-04**  
 Stanionyte, A: **EP-07**  
 Staruch, M: DC-05, FR-06, GE-03, HR-15  
 Staub, U: AR-03  
 Steadman, P: AG-03  
 Steele, J M.: HR-17LB  
 Steentjes, S: DS-03  
 Stefancic, A: CB-07  
 Stephen, G M.: BD-12, **GF-03**, GF-10  
 Stiles, M: EA-07  
 Stödter, L: **GB-01**  
 Stollenwerk, A J.: CC-06, **FQ-16**, FR-20LB  
 Straka, L: GE-07  
 Strecka, J: **BC-13**, FR-13  
 Street, G T.: EG-04, **FF-06**, GE-05  
 Strocov, V N.: HC-11  
 Strugatsky, M: AR-13LB  
 Sturm, S: HE-06  
 Su, C: GR-09  
 Su, L: GQ-02  
 Su, Y: BR-16LB  
 Suarez, A: HA-04  
 Suarez-Perez, A: CD-03  
 Suemasu, T: HQ-14  
 Suess, D: CD-07, CE-07, DH-08, ED-03, **ED-07**, FG-04, HF-05, HG-11  
 Suggula, N: **CS-01**  
 Sugimoto, S: DS-04, EC-11, GP-01  
 Sugimoto, T: **BC-08**  
 Sugiyama, S: **BP-13**, **HE-05**  
 Suhail Mutawakkil, S: EA-09  
 Sukegawa, H: DF-04, DF-08, EF-03  
 Sukhbaatar, A: ER-12  
 Sullivan, E: EF-13  
 Sultana, J: **GR-15**  
 Sultana, R: **GG-12**  
 Sumi, S: DR-16  
 Sumida, Y: CB-02  
 Sun, N X.: AQ-09, CE-06, DP-04  
 Sun, S: HB-07  
 Sun, S: **GB-08**  
 Sun, W: GD-13  
 Sung, J: BC-03  
 Sunny, J: HF-05  
 Suto, H: AA-02, DF-09, FF-12  
 Suwa, T: **GD-05**, GD-06  
 Suzuki, I: FF-12  
 Suzuki, K: **DD-01**, DD-08, DD-09  
 Suzuki, S: AG-01  
 Suzuki, Y: GP-03  
 Suzuki, Y: BD-11  
 Suzuki, Y: HE-03  
 Svedlindh, P: DP-08

Swindells, C: AE-03, DS-15LB, EG-07, **FD-02**  
 Syed, M: **GR-09**  
 Sýkora, J: FQ-05  
 Syskaki, M: **CR-13**, HF-07  
 Szenthe, I: DP-13  
 Szpytma, M: FP-08  
 Szunyogh, L: **CC-14**, FG-13, FR-17LB  
 Szymczak, A: FB-02

Š  
 Šturm, S: EB-07

**T**  
 Tabata, H: EQ-15LB  
 Tabata, T: DD-12  
 Tacchi, S: FG-08  
 Tachibana, C: **FR-15**  
 Tada, K: **EF-02**  
 TADAHARA, H C.: CF-02  
 Tadamura, T: AC-07  
 Tadano, T: DE-03  
 Taguchi, M: AQ-02, BP-06  
 Taguchi, T: AQ-15  
 Taguchi, Y: CF-10, FE-10  
 Tai, L: GF-03  
 Tai, T: FR-05  
 Tajkov, Z: **FG-02**  
 Takada, S: AG-01  
 Takafuji, D: HQ-13  
 Takahashi, S: **DQ-07**  
 Takahashi, Y: **DE-11**  
 Takahashi, Y: FE-10  
 Takahashi, Y K.: AA-04, AF-06, BD-02, BD-03, FF-12  
 Takamatsu, S: **CD-06**  
 Takamoto, T: FR-04  
 Takamura, Y: **HC-07**  
 Takano, S: AQ-04  
 Takano, S: CC-15  
 Takeda, R: **BE-11**  
 Takeda, T: CG-07  
 Takeuchi, T: CS-02  
 Takeya, H: EB-03  
 Takhar, D: GF-10  
 Takhsha, M: BA-03  
 Takura, T: **DQ-05**  
 Talatchian, P: EA-07  
 Talmelli, G: AG-10, FD-07  
 Tam, D: **GB-03**  
 Tamura, E: GP-03  
 Tamura, N: EE-10  
 Tan, W: HQ-15  
 Tanabe, K: CS-02, **DR-07**, DR-16, HQ-02  
 Tanahashi, K: AA-07  
 Tanaka, D: **BP-15**  
 Tanaka, H: FR-02  
 Tanaka, H: AQ-16

Tanaka, K: EQ-01, ER-01, ER-13  
 Tanaka, M: BP-13, CG-07, FF-02, HE-05  
 Tanaka, R: BP-07  
 Tanaka, Y: FE-10  
 Tang, J: GF-08  
 Tang, J: AF-09  
 Tang, T: BD-01  
 Tang, W: AP-02, **EC-08**, EC-10, **HD-11**  
 Tang, X: **EB-02**, EB-03, EC-05, **GD-03**  
 Tang, Y: BP-04  
 Taniguchi, T: CC-05  
 Taniguchi, T: DD-08, DD-09, **FA-08**  
 Taniguchi, T: CR-04, HE-09  
 Taniyama, T: AR-14, HG-06  
 Tanksalvala, M: EG-07  
 Tanwar, A: FA-05  
 Tao, J: CC-03  
 Tao, Y: **DC-06**, DC-10, **EE-03**  
 Tao, Z: CH-02  
 Tarabay, N: **CS-06**  
 Tardieux, M: **BC-02**, FE-04  
 Tartakivska, O: DG-10  
 Tasaki, T: **ED-09**  
 Tate, J: CS-05, CS-07  
 Tatetsu, Y: GD-07, **HD-05**  
 Tatsumi, R: **HG-04**  
 Taue, S: AQ-01  
 Tavares de Sousa, C: **CD-01**  
 Taylor, T J.: EQ-05  
 Tenasini, G: EQ-16LB  
 Teng, Z: **EA-06**  
 Terada, S: DD-12  
 Terilli, M: HC-11  
 Terko, A: BG-07, DS-11  
 Tey, M N.: CA-07  
 Thakurathi, M: DB-03  
 Tham, K: **GR-16**  
 Thangavel, K: **HB-05**  
 Thareja, E: FG-10  
 Thevaruban, P: DE-10  
 Thomas, A: DA-04  
 Thomay, T: **GA-03**  
 Thompson, J: FE-05  
 Thota, S: EF-03  
 Thuwal, U C.: **AD-08**  
 Tiberto, P: **AD-12**, **DC-04**  
 Tijani, L: AE-04  
 Timalisina, R: BE-06, EG-01  
 Tiwari, A: HE-11  
 Tiwari, B: EG-01  
 Tobola, J: EB-07  
 Todaka, Y: **EG-08**  
 Todoli, Q: DD-07  
 Togawa, Y: AG-01, CC-04  
 Tohtake, S: EQ-06  
 Tojo, K: FB-01  
 Tokoro, F: **CF-04**, HQ-05  
 Tokuda, F: CC-04

Tokue, K: **GP-15**  
 Tokunaga, M: FE-10  
 Tokunaga, Y: FE-09  
 Tokunaga, Y: CF-10  
 Tokura, Y: CF-10, FE-10  
 Tomasello, R: HF-09  
 Tomita, H: AC-07  
 Tomita, Y: **DD-04**  
 Tonnerre, J: AE-07, GP-09  
 Tonyushkin, A: **HA-02**  
 Töpfer, J: **DD-06**  
 Torres, L: DH-10  
 Tournus, F: FP-13  
 Toyoda, S: **CF-10**  
 Tran, D: AF-11, BB-07, HF-07, HF-14  
 Tran, M: CA-04, GB-08  
 Tranquada, J: AF-01  
 Travagnin, F: DG-02  
 Tretiakov, O: HF-06  
 Treu, T: GB-07  
 Trillaud, F: XA-01  
 Trinh, Q: **CA-09**  
 Tsai, L: FF-01  
 Tsai, W: HE-03  
 Tsai, Y: HB-07  
 Tschudin, M: BC-01  
 Tseng, Y: FD-10  
 Tsipas, P: BF-11  
 Tsukahara, H: DD-08, **DD-09**  
 Tsukamoto, A: BG-02  
 Tsukazaki, A: FE-07  
 Tsunoda, M: DP-01  
 Tsushima, Y: CF-12  
 Tsybal, E Y.: BE-06, CA-07, EG-01  
 Tulapurkar, A A.: FQ-04  
 Tulapurkar, A A.: DR-14  
 Tumentsereg, O: **CP-11, CP-14**, HD-08, **HR-04**  
 Turnbull, L: CB-07  
 Turner, J J.: **EE-13**  
 Turrini, A: GB-03  
 Tutt, F: DC-06, DC-10, **FQ-05**  
 Tyagi, P: **BP-12, HR-12**  
 Tyberkevych, V: DG-07  
 Tyson, T A.: HR-09

## U

Uchida, K: CC-15, DF-09, EG-03  
 Uchimura, T: FE-07  
 Uchiyama, S: CR-14  
 Udvardi, L: CC-14  
 Ueda, K: HQ-13  
 Uehara, Y: FA-08  
 Uesugi, R: CF-12, FP-03, **GF-07**  
 Uhlarz, M: FE-09  
 Uhm, Y: **FC-14**  
 Ujfalussy, B: FR-17LB  
 Ullerithodi, M: BD-02

Umetsu, N: CA-05, DH-05  
 Ung, K V.: **BD-12**  
 Unnikrishnan, A: AR-06  
 Upadhyay, A: **BE-13**  
 Upadhyaya, P: CA-07, HQ-16LB  
 Urata, A: EC-04  
 Urbánek, M: FB-05  
 Urrestarazu Larranaga, J: AG-10, FD-07  
 Usih, E C.: DA-04  
 Us-Saleheen, A: GF-05  
 Uzuhashi, J: DF-04, DF-08, EF-03, EG-03

## V

Valenzuela, S O.: CC-05  
 van 't Erve, O M.: **AF-03**  
 Van Beek, S: FD-07  
 van der Laan, G: CB-03, FD-04  
 van Dijk, N: EE-08  
 van Dijke, A: FR-18LB  
 van Dijken, S: EG-10, HC-03  
 Van Haren, R: GF-03, GF-10  
 van Kuppevelt, P: AR-03, **BR-06**  
 van Riel, F: AQ-05LB  
 Vargas Paniagua, E: HA-01  
 Varma, Y: EC-08  
 Vas, J: AD-08, BC-01  
 Vavassori, P: GC-02  
 Vayalil, s K.: HE-11  
 Vaynzof, Y: BE-03  
 Vayrynen, J: AR-06  
 Vega, V: GE-09  
 Veis, M: AC-05, FQ-05  
 Velasco Cardenas, O A.: CR-15  
 Velazquez, I: DA-06  
 Veldman, L: AR-02  
 Velez, C: CS-06  
 Velez, S: DH-10  
 Venere, M: BA-02  
 Venugopal, A: **BD-05**, BD-09, FG-09  
 Vera, R: CD-04  
 Vera Marun, I: FF-04  
 Verba, R V.: FB-05  
 Verma, S: GG-03, **HG-07**  
 Verschueren, L: CA-03  
 Veverka, M: DC-07  
 Veverka, P: CS-10  
 Vezzoni, A: **CD-03**, HA-04  
 Victor, R T.: **GA-02**  
 Victora, R H.: **AA-01**, AA-05  
 Vigo, H: AR-15  
 Vila, M: GC-11  
 Villanueva, D: BA-01  
 Villar, A: **GC-02**  
 Vilsmeier, F: **FB-07, HG-11**  
 Vinson, J: EF-13  
 Viola Kusminski, S: **GG-01**  
 Vir, P: CB-07

Virasawmy, S: CB-05  
 Virnau, P: HF-14  
 Vishwesh, C V.: **EQ-16LB**  
 Visona, A: **BA-07**  
 Vitos, L: DP-08  
 Vodungbo, B: AF-07  
 Voltrova, T: CS-10  
 Vool, U: BE-05  
 Vovk, N: GC-06

## W

Wadati, H: **CH-04**  
 Wade, J: GR-05  
 Wadley, P: **CB-01**  
 Wagle, D: GG-09, **HG-09**  
 Wagner, M: AR-12, DG-06  
 Wakabayashi, K: **EP-05**  
 Wakamoto, M: DF-04  
 Walker, B: **GP-08**  
 Walsworth, R: BD-12  
 Walters, A: **AD-04**  
 Wan, C: AR-11, CR-03, CR-16  
 Wang, F: **AG-06**  
 Wang, H: BC-01  
 Wang, H: CD-04, ER-05, ER-06  
 Wang, H: BE-09, DE-13  
 Wang, H: EF-04  
 Wang, H: **HP-02**  
 Wang, H: CH-02  
 Wang, H: **GQ-01**  
 Wang, H: AP-13LB  
 Wang, J: EG-01  
 Wang, J: GC-10  
 Wang, J: AQ-03, CS-11, DD-11  
 Wang, J: EC-08, HD-11  
 Wang, J: BG-03  
 Wang, K: GF-03  
 Wang, L: BA-04  
 Wang, L: CC-03  
 Wang, P: FC-12, **FG-03**  
 Wang, Q: FB-05  
 Wang, Q: DA-07  
 Wang, S X.: HE-03  
 Wang, S: AE-06  
 Wang, S: DF-06, FP-01  
 Wang, T: DR-12  
 Wang, T: HQ-15  
 Wang, T: **GQ-09**  
 Wang, W: EF-04  
 Wang, X: BC-01  
 Wang, Y: **DE-13**  
 Wang, Y: **BF-07\***  
 Wang, Y: DF-02  
 Wang, Z: CC-03  
 Wang, Z: BC-06  
 Wang, Z: DD-05  
 Wang, Z: HC-01  
 Wartelle, A: CB-09, GP-09

Watanabe, K: CC-05  
 Watanabe, M: FR-02  
 Watanabe, T: BG-01, GG-11, HR-03  
 Watson, S: HF-06  
 Watt, J: EG-01  
 Weck, P F.: DD-11  
 Wei, B: FQ-16  
 Wei, D: FR-19LB, GR-18LB  
 Wei, E: EG-02  
 Wei, H: FR-19LB, GR-18LB  
 Wei, H: CD-07  
 Wei, Y: CR-07, CR-11, **FD-05**  
 Weidenhiller, F: **AG-09**  
 Weides, M P.: GE-08  
 Weigand, M: DH-11, FB-05, HF-07  
 Weightman, E: **BC-05**  
 Welp, E: DC-03  
 Welp, U: CE-05, EG-13  
 Wen, Z: DF-08, **EF-03**  
 Wendl, A: EB-01  
 Wereley, N M.: AQ-13, **EQ-13**  
 Werwinski, M: **HD-04**, HD-07  
 Westfall, C: **DS-12**, EQ-09  
 Whalen, M P.: **EG-09**  
 White, J S.: DC-11, HF-06  
 Wiedwald, U: **CD-02**  
 Wiemer, C: GF-09  
 Wiersma, D: AD-12  
 Wijesundara, C: GA-03  
 Wild, P: **AC-13**  
 Wilhelm, F: FP-13  
 Wilke, M: **GP-06**  
 Williams, J: BE-04  
 Winchell, A J.: **AC-11**  
 Winkelmann, C B.: AD-08  
 Winkler, A: AQ-09, CE-06  
 Winkler, R: FG-07  
 Winklhofer, M: FC-05  
 Wintz, S: **AD-05**, DH-11, FB-05, HF-07  
 Wissner, J J.: EG-07  
 Witanachchi, S: ED-10, EE-12  
 Wohlrab, S: AQ-09, CE-06  
 Wojewoda, O: **BR-04**, DG-11, **FB-05**,  
 HC-10  
 Wolff, S: FC-07  
 Wolter, A: EP-07  
 Wongjom, P: BP-11  
 Woo, S: CQ-13, HP-06, **HP-10**  
 Woodcock, J: FC-04  
 Wostyn, K: CA-03  
 Wrona, J: CR-13  
 Wu, A: GC-06, **GQ-02**  
 Wu, D: GQ-05, GQ-11  
 Wu, H: FE-06  
 Wu, J: **GR-04**  
 Wu, K: CD-04, ER-02, **ER-05**, **ER-06**,  
**FC-01**  
 Wu, L: HC-11

Wu, M: GR-18LB  
 Wu, M: AQ-09, CE-06, DP-04, GF-08,  
 GF-10  
 Wu, P: **AE-06**  
 Wu, P: DA-05  
 Wu, R: **FR-11**  
 Wu, T: **EQ-02**, **HA-07**, HQ-03  
 Wu, W: CH-06  
 Wu, X: BA-02  
 Wu, Y: GA-08  
 Wu, Y: CF-05

## X

Xiao, E: DE-03  
 Xiao, F: BE-09, DE-13, DP-11  
 Xiao, G: DF-04  
 Xiao, J: **CQ-12**  
 Xiao, J Q.: CH-06, EG-09, GG-09  
 Xiao, R: **BB-06**  
 Xiao, T P.: **DA-06**  
 Xiao, X: **CH-02**  
 Xiao, X: GC-05  
 Xiao, Z: EA-06  
 Xie, Y: CF-05  
 Xie, Z: EE-10  
 Xie, Z: BB-06  
 Xing, Z: GQ-09  
 Xiong, J: AB-03  
 Xiong, S: **CR-03**, CR-16  
 Xiong, Z: **HG-10**  
 Xu, B: **AB-05**  
 Xu, B: EG-03  
 Xu, C: ER-02, ER-05, ER-06  
 Xu, J: HQ-12  
 Xu, J: CC-03  
 Xu, Y: GA-02  
 Xu, Y: CR-16  
 Xu, Y: CA-08  
 Xue, F: **FF-08**

## Y

Yabukami, S: **AQ-10**, CD-06, DE-05,  
**EQ-06**, ER-11, ER-12  
 Yabushita, K: EF-02  
 Yactayo, M S.: AG-13  
 Yadav, P: DR-01LB  
 Yadav, R S.: AG-12, CR-12  
 Yadav, R: **FF-09**  
 Yadav, S: **GP-01**  
 Yadav, V: AG-12, **CR-12**  
 Yadav, V: **CH-08**  
 Yagi, T: EG-03  
 Yagmur, A: DR-02  
 Yakushiji, K: CR-04, HE-09  
 Yamada, K: AG-01, **CC-04**  
 Yamada, K: AQ-15  
 Yamada, K: **BR-03**, FP-07  
 Yamada, K T.: AF-06, BP-01

Yamada, R: DB-02, FE-10  
 Yamada, T: BC-08  
 Yamada, Y: AC-07  
 Yamaguchi, M: AQ-10  
 Yamaguchi, N: GQ-07  
 Yamaguchi, T: CP-04  
 Yamaguchi, Y: **HQ-13**  
 Yamaguchi, Y: **ER-01**  
 Yamahara, H: EQ-15LB  
 Yamamoto, D: **EF-10**, FR-15, FR-16, GP-  
 15  
 Yamamoto, H: AP-10, **AP-11**, CP-03  
 Yamamoto, M: CG-03  
 Yamamoto, R: CB-07  
 Yamamoto, T: CR-04, DF-07, HE-09  
 Yamamoto, Y: AC-07  
 Yamamuro, S: **CS-09**  
 Yamane, I: CE-04  
 Yamane, T: **FR-16**  
 Yamane, Y: BF-03  
 Yamanoi, K: AR-01, **BP-16LB**, DR-09  
 Yamasaki, Y: GQ-10  
 Yamashita, K: HF-01  
 Yamashita, N: **HQ-12**  
 Yamashita, Y: EG-03  
 Yamazaki, T: AB-09  
 Yan, B: **GA-04**  
 Yan, L: HQ-12  
 Yan, Y: GQ-01  
 Yan, Z: DG-07  
 Yanagi, N: **XA-01**  
 Yanagihara, H: DR-08, GQ-10  
 Yanase, Y: CF-01  
 Yanes, R: DH-10  
 Yang, B: GQ-05, GQ-11  
 Yang, B: **FQ-03**  
 Yang, C: AC-08, **AC-09**, AE-06, BR-02,  
 CF-11  
 Yang, J: CD-04  
 Yang, J A.: HE-03  
 Yang, J: BC-01, CC-01  
 Yang, J: BQ-11, CQ-07, CQ-14  
 Yang, K: BQ-13  
 Yang, M: **BR-02**, **CF-11**  
 Yang, M: **DP-06**  
 Yang, P: BB-06  
 Yang, Q: DP-06  
 Yang, S: BR-11  
 Yang, S: AR-09, **HF-11**  
 Yang, W: AF-11  
 Yang, W: GE-10  
 Yang, X: FF-13, HF-12  
 Yang, X: HA-08  
 Yang, X: **HQ-10LB**  
 Yang, Z: CR-08  
 Yang, Z: CR-08  
 Yao, J: CE-06  
 Yao, T: HR-10

Yao, Y: BE-06  
 Yao, Y: HQ-03  
 Yao, Y: EA-06, EA-08  
 Yasuda, T: HQ-14  
 Yasufuku, H: DF-08  
 Yasui, Y: **FQ-09**, FR-05, FR-12, FR-14  
 Yazdi, S: CB-08  
 Ye, F: DS-04  
 Ye, G: CC-06, FR-20LB  
 Ye, H: HA-04  
 Ye, L: FA-05  
 Ye, L: EQ-02, HA-07, **HQ-03**  
 Yildiz, E: CE-01, DE-04  
 Yin, G: AD-02, AD-03, DC-08, EF-12, GD-12  
 Yin, H: **DE-02**  
 Yitamben, E: **BD-06**  
 Yochelis, S: HE-10  
 Yoda, H: **CA-01**  
 Yokouchi, T: **HB-03**  
 Yonezawa, S: AE-02  
 Yoo, J: GE-03  
 Yoo, J: EP-10  
 Yoo, M: CG-05, **FG-07**  
 Yoon, S: **DS-09**, DS-10  
 Yoon, S: **AQ-11**  
 Yoon, S: **BQ-11**, BQ-12, CQ-16, HP-04  
 Yoon, Y: BQ-11, BQ-12, CQ-08, **CQ-16**, HP-04  
 Yoosuf, R: FP-10  
 Yoshida, A: BD-11, EF-02  
 Yoshida, S: DP-14  
 Yoshidome, T: CE-04  
 Yoshii, S: BR-14, **FB-06**  
 Yoshikawa, H: BG-02  
 Yoshikawa, M: **CA-05**, DH-05  
 Yoshimi, Y: EC-03  
 Yoshinaga, N: FD-08  
 Yoshioka, S: DF-07  
 You, C: AR-05, BP-09, DS-07, HQ-07  
 You, W: CG-05  
 Yousuf, S: BC-03  
 Yu, C: CC-01  
 Yu, G: CR-16  
 Yu, H: BQ-11, **BQ-12**, CQ-16, HP-04  
 Yu, J: EQ-12  
 Yu, K: BQ-03, CQ-02, CQ-06, CQ-07, **CQ-11**, DQ-01, DQ-02, HP-07, HP-08  
 Yu, X: BB-06  
 YU, T: CR-08  
 Yuan, H: **GA-08**  
 Yuan, J: BE-09, DE-13, **DP-11**, DP-16, DQ-04, EP-08  
 Yuan, L: CA-07  
 Yuasa, H: AQ-02, BP-06, BP-15, **HF-01**  
 Yuasa, S: CR-04, FF-05, HE-09  
 Yun, H: GQ-04

**Z**  
 Zaidi, N: AR-06  
 Zajac, M: FP-08  
 Zaliznyak, I: AF-01  
 Zang, J: **AB-02**, ED-02  
 Zarubin, S: DF-03  
 Zatko, V: CC-05  
 Zborowski, M: AE-04  
 Zeer, M: BB-07  
 Zelezny, J: **BF-09**  
 Zemen, J: GE-07  
 Zeng, H: AB-03, **CC-02**  
 Zeng, K: GD-12  
 Zeng, M: CD-04  
 Zeng, Z: HC-04  
 Zeng, Z: DC-08  
 Zeni Cunha, L: **FR-18LB**  
 Zenkevich, A: DF-03  
 Zhang, C: **DS-05**, **DS-06**  
 Zhang, C: DF-02, **DR-13**  
 Zhang, E: CD-03, **HA-04**  
 Zhang, G: **GC-10**  
 Zhang, H: **EA-07**  
 Zhang, H: **AB-06**  
 Zhang, H: EA-06, EA-08  
 Zhang, H: **EB-08**  
 Zhang, J: FQ-15, HC-01  
 Zhang, L: HF-01  
 Zhang, M: **BE-09**  
 Zhang, M: AP-05  
 Zhang, P: AB-03  
 Zhang, P: BF-05, FF-03  
 Zhang, Q: BB-06  
 Zhang, R: CC-03  
 Zhang, S: CH-02  
 Zhang, S: CR-08  
 Zhang, S: GF-08  
 Zhang, T: **AR-11**  
 Zhang, W: GC-09  
 Zhang, X: CC-03  
 Zhang, X: DC-08, GD-12  
 Zhang, X: DG-07  
 Zhang, Y: DC-06, DC-10  
 Zhang, Y: ED-02  
 Zhang, Y: EA-06, EA-08  
 Zhang, Y: EQ-16LB  
 Zhang, Y: DR-12  
 Zhang, Y: CC-03  
 Zhang, Y: **HA-08**  
 Zhang, Z: CA-08  
 Zhang, Z: GQ-02, **HR-02**  
 Zhang, Z: DP-16  
 Zhang, Z: HG-05, **HR-05**  
 Zhao, F: EQ-12  
 Zhao, L: **HR-07**, HR-16  
 Zhao, T: BB-06  
 Zhao, W: EA-06, EA-08  
 Zhao, Y: EA-06

Zhao, Y: HC-04  
 Zheng, B: **GQ-05**  
 Zheng, S: CR-08  
 Zheng, T: **EG-06**  
 Zheng, T: **GC-05**  
 Zheng, X: EC-13  
 Zheng, Z: BB-06  
 Zhou, F: EF-04  
 Zhou, G: DP-06  
 Zhou, H: DE-13, DP-11, DP-16, DQ-04, EP-08  
 Zhou, L: FQ-16, FR-20LB  
 Zhou, T: CE-06  
 Zhou, X: FE-06  
 Zhou, Z: BF-01  
 Zhu, H: **CR-08**  
 Zhu, J: BD-07, **BD-08**, BD-10, EG-06  
 Zhu, J: CR-08  
 Zhu, T: CE-02, **HA-09**  
 Zhu, T: CC-03  
 Zhu, X: HR-10  
 Zhu, X: HP-02  
 Zhu, Y: GQ-01  
 Zhukov, A: CP-01, **DD-13**, **EP-03**  
 Zhukova, V: **CP-01**, DD-13, EP-03  
 Zhurkin, V: DF-03  
 Zink, B L.: BP-05LB  
 Zogbi, N: **BF-04**, CA-07, DA-06, **FD-03**  
 Zohar, J: FD-04  
 Zoshki, A: BC-13  
 Zou, J: CB-08  
 Zuehlsdorff, T: AC-11  
 Zuo, J: **AP-05**  
 Zuo, J: HR-05  
 Zuo, L: HR-06  
 Zutic, I: AB-03