



IEEE MAGNETICS SOCIETY

INTERMAG 2026

MANCHESTER | 13-17 APRIL 2026



IEEE International Magnetics Conference 2026



intermag2026.org



Manchester Central Convention Complex

Digest Book



Sponsored by the IEEE Magnetics Society, ieemagnetics.org

SCOPE OF THE CONFERENCE



It is our great pleasure to invite researchers in all aspects of magnetism to Manchester U.K. for the IEEE International Magnetism Conference (INTERMAG 2026). The conference will take place 13 – 17 April 2026 and will cover the latest research across the broad spectrum of fundamental and applied magnetism. The conference will feature invited symposia and contributed talks, a plenary presentation together with poster sessions allowing presenters to discuss their results in detail. The InterMag conference series has been a key component of the annual magnetism calendar since 1963, but this is only the third occasion that it has come to the U.K. – the last being in 1990.

The conference will include a number of special sessions designed to focus on particular areas within the broad magnetism community as well as the Symposium on Integrated Magnetism (SIM) which will take place directly before InterMag 2026 at Manchester Central. InterMag 2026 highlights include a full day workshop designed to connect the design/manufacturing and simulation of electric machines; an industry day with dedicated symposia and roundtables focused on advanced spintronic devices and a half day symposium to mark the 150th anniversary of the Magneto-Optic Kerr Effect.

CONFERENCE INFORMATION

LOCATION: [Manchester Central Convention Complex](#)

MOBILE APP:

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

CONFERENCE MATERIALS:

- Online Planner: [For Desktop](#) / [For Mobile](#)
- [Program Overview](#)
- [Symposia](#) and [Invited Speakers](#)
- [Program/Digest Book](#)

SOCIAL MEDIA LINKS:





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CONFERENCE ORGANIZATION

ORGANIZING COMMITTEE

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University of Manchester, UK

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Abstracts/Publications Manager - Regina Mohr, Simply Vintage, USA

PROGRAM COMMITTEE

(Name in blue indicates Team Lead)

Assigned Categories	Name	Institution
1. Fundamental Properties and Cooperative Phenomena	Krisztian Palotas	HUN-REN Wigner Research Center for Physics
	Igor Zutic	University at Buffalo
	Amilcar Bedoya Pinto	University of Valencia
	Anna Delin	KTH Royal Institute of Technology
	Arti Kashyap	Indian Institute of Technology Mandi
	Elton Santos	University of Edinburgh
2. Magnetoelectronic Materials and Phenomena	Yoshinori Onose	Tohoku University
	Francesca Casoli	IMEM - CNR
	Jordi Sort	Universitat Autònoma de Barcelona
3. Soft Magnetic Materials	Nicoleta Lupu	National Institute of R&D for Technical Physics
	John Xiao	University of Delaware
	Paula Bercoff	Universidad Nacional de Córdoba
	Enzo Ferrara	INRIM - Divisione ML
	Damir Pajić	University of Zagreb Faculty of Science
	Adrian Quesada	Institute of Ceramics and Glass (CSIC)
4. Hard Magnetic Materials	Ping Liu	University of Texas at Arlington
	Debraj Choudhury	Indian Institute of Technology Kharagpur
	César de Julián Fernández	Istituto dei Materiali per l'Elettronica ed il Magnetismo Consiglio Nazionale delle Ricerche
5. Structured Materials	Piotr Kuswik	Institute of Molecular Physics of the Polish Academy of Sciences
	Kleber Pirola	University of Campinas
	Oscar Iglesias	University of Barcelona
	Surendra Singh	Bhabha Atomic Research Centre
	Gonzalo Vallejo Fernandez	University of York
	Huali Yang	Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences
6. Materials with Coupled Magnetic Functionality	Yi Li	Argonne National Laboratory
	Satoru Emori	Virginia Tech
	Ferran Macia	Universitat de Barcelona
7. Spintronics	Kaiming Cai	Huazhong University of Science and Technology
	Grégoire de Loubens	CEA Paris-Saclay
	Takahiro Moriyama	Nagoya University
	Elvira Paz	INL - International Iberian Nanotechnology Laboratory
	Subhankar Bedanta	NISER, Bhubaneswar
	Alexander Chekhov	Freie Universität Berlin
	Shun Kanai	Tohoku University
	Dominik Kriegner	Academy of Sciences of the Czech Republic
	Anjan Soumyanarayanan	National University of Singapore
	Giacomo Talmelli	Imec
	Angela Wittmann	Johannes Gutenberg Universität in Mainz
	Hiromi Yuasa	Kyushu University
	8. Magnetization Dynamics and Micromagnetics	Emanuelle Jal
Pedro Landeros		Universidad Técnica Federico Santa María
Hans Nembach		NIST
Dmytro Afanasiev		Institute for Molecules And Materials
Bivas Rana		Adam Mickiewicz University
Nicolas Reyren		CNRS
Silvia Tacchi		Consiglio Nazionale delle Ricerche
Riccardo Tomasello		Politecnico di Bari
Jakob Walowski		Greifswald University
9. Magnetic Recording, Sensors and Energy Harvesting Applications	SN Piramanayagam	Nanyang Technological University
	Simon Greaves	Tohoku University
	Paul Stevenson	Northeastern University

Assigned Categories	Name	Institution
10. Microscopy, Imaging and Magnetic Characterization	Agustina Asenjo	Consejo Superior de Investigaciones Cientificas
	Valeria Lauter	ORNL
	Valerio Scagnoli	ETH/PSI
11. Biomedical Applications and Magneto-Fluidics	Paola Tiberto	INRIM
	Ravi Hadimani	Virginia Commonwealth University
	Bijoy Kuanr	Jawaharlal Nehru University
12. Non-Conventional Computing with Magnetic Devices, Materials and Systems	Pedram Khalili Amiri	Northwestern University
	Katrin Schultheiss	Helmholtz-Zentrum Dresden-Rossendorf
	Philippe Talatchian	SPINTEC
13. Electrical Machines, Electromagnetic Devices and Systems	Po-Wei Huang	National Cheng Kung University
	Kenji Nakamura	Tohoku University
	Wei Xu	Chinese Academy of Sciences
	Masahiro Yamaguchi	Tohoku University
	Ming Cheng	Southeast University
	Satoru Emori	Virginia Tech
	Youguang Guo	University of Technology Sydney
	Anh Huynh	University of Nottingham
	Gang Lei	University of Technology Sydney
	Xiaodong Sun	Jiangsu University
	Lei Yao	Zhejiang University
14. Simulation and Design Optimization of Electromagnetic Systems	Zhuoxiang Ren	Sorbonne University
	Hajime Igarashi	Hokkaido University
	Shiyu Yang	Zhejiang University
15. Emergent and Interdisciplinary Topics in Magnetism	Carlo Stefano Ragusa	Politecnico di Torino
	Thiago Mori	Brazilian Center for Research in Energy and Materials
	Arcady Zhukov	IKERBASQUE, Basque Foundation for Science

SESSION CHAIRS

Session		First Name	Last Name	Institution
AA	Advanced Soft Magnetic Materials and Devices Bridging Magnetism and Power Electronics	Satoshi	Okamoto	Tohoku University
		Luigi	Solimene	Politecnico di Torino
AB	Antiferromagnets: From Fundamentals to Devices	Hariom	Jani	University of Oxford
		Richard	Evans	University of York
AC	Spintronic Devices for Emerging Information and Communication Technologies	Alex	Jenkins	International Iberian Nanotechnology Laboratory
AD	Altermagnets	Kirill	Belashchenko	University of Nebraska-Lincoln
		Enrique	Del Barco	University of Central Florida
AE	NdFeB and Others RE Compounds for Hard Magnetic Materials	Petra	Jenuš Belec	Jozef Stefan Institute
AF	Exploring Complex Magnetic States with Advanced Magnetic Imaging	Aurelio	Hierro-Rodriguez	Universidad de Oviedo
AG	Magnetic Nanoparticles	Elin	Winkler	Centro Atómico Bariloche
		Lourdes	Marcano	Oviedo University
AH	Engineering Magnetism in Thin Films and Multilayers	Anuj	Dhiman	Institute of Molecular Physics, Polish Academy of Sciences
		José Miguel	Garcia-Martin	CSIC
AP	Advances in 2D and Molecular Magnets	Igor	Rozhansky	University of Manchester
AQ	Electromagnetic Design and Modeling of Linear Actuators and Suspension Systems	Po-Wei	Huang	National Cheng Kung University
		Alexander	Sutor	UMIT TIROL
AR	Permanent Magnet Machines and Magnetically Geared Machines I	Jiaxin	Yuan	Wuhan University
AS	Magnetization Dynamics and Micromagnetics I	Riccardo	Tomasello	Politecnico di Bari
AT	Magnetic Thin Films and Multilayers	Abhishek	Talapatra	GlobalFoundries
AU	Spin-Orbit and Orbital Torques I	Zhifeng	Zhu	ShanghaiTech University
BA	Next-Generation Spintronics based on Two-Dimensional Materials	Ivan Jesus	Vera Marun	University of Manchester
BB	From Heuslers to High-Entropy Alloys: Disorder, Topology, and Tunable Magnetotransport	Manuel	Vázquez	CSIC, Spain
BC	Voltage-Controlled Magnetic Anisotropy and Magneto-Ionics	Robbie	Hunt	Uppsala University
		Larissa	Ishibe Veiga	Diamond Light Source Ltd
BD	Antiferromagnetic Dynamics	Badih	Assaf	University of Notre Dame
		Yuta	Yamane	Tohoku University
BE	NdFeB Based Hard Magnetic Materials	Alex	Aubert	TU Darmstadt
BF	3D Magnetism and Topologically Non-Trivial Spin Textures	Joo-Von	Kim	Université Paris-Saclay
BG	Magnetic Recording and Media	SN	Piramanayagam	Nanyang Technological University
		Chris	Rea	Seagate
BH	Bulk Soft Magnetic Materials and PM Motor Architectures for High-Power Systems	Jan	Fuzer	P. J. Šafárik University
BP	Permanent Magnet Machines and Magnetically Geared Machines II	Wenting	Wang	University of Nottingham
		Xiao	Liu	Hunan University
BQ	Radial-Flux Permanent Magnet Motors	Min-Fu	Hsieh	National Cheng Kung University
BR	Soft Magnetism Materials	Samuel	Dobák	P. J. Šafárik University
BS	Magnetotransport	Takeshi	Kato	Nagoya University
BT	Fundamental Properties	Alexander	Shick	Institute of Physics, the Czech Academy of Sciences
BU	Neuromorphic, Probabilistic, and Quantum Computing I	Andrea	Grimaldi	Politecnico di Bari
CA	Accelerating Innovation: The Industry-Academia Synergy in Magnetic-based Critical Technologies (PART A)	Paolo	Bortolotti	Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay
CB	Inertial Spin Dynamics and Nutation	Rostislav	Mikhaylovskiy	Lancaster University
CC	Unconventional Spin-Orbit Torques	Luis	Avilés Félix	Centro Atomico Bariloche
CD	Topological Quantum Matter	Arti	Kashyap	Indian Institute of Technology Mandi
CE	Rare-Earth Free Hard Magnetic Materials	Imants	Dirba	TU Darmstadt
CF	2D and 3D Individual Nanostructures and their Arrays	Troy	Dion	Tohoku University
		Joseph	Askey	Cardiff University
CG	Sensors (Non-Recording) I	Shin	Yabukami	Tohoku University

Session		First Name	Last Name	Institution
CH	Soft Magnetic Materials: Crystalline and Disordered Alloys	Enzo	Ferrara	INRIM - Divisione ML
CP	Special Machines I	Elena	Lomonova	Technische Universiteit Eindhoven
		Metin	Aydin	Kocaeli University
CQ	Permanent Magnet Machines and Magnetically Geared Machines III	Bram	Daniels	Eindhoven University of Technology
CR	Magnetic Nanostructures and Nanoparticles	Patricia	de la Presa	Complutense University of Madrid
CS	Spintronic Devices for More Efficient Technologies	Andrea	Migliorini	Max Planck Institute of Microstructure Physics
CT	Ferromagnetic Resonance and Spin Waves I	Jan	Masell	Karlsruhe Institute of Technology
CU	Neuromorphic, Probabilistic, and Quantum Computing II	Riccardo	Tomasello	Politecnico di Bari
DA	Accelerating Innovation: The Industry-Academia Synergy in Magnetic-based Critical Technologies (PART B)	Florin	Ciubotaru	imec
DB	Artificial Spin Ice: New Pathways in Strongly-Interacting Nanomagnetic Networks	Laura	Heyderman	ETH Zurich - Paul Scherrer Institute
DC	Spin-Orbit and Orbital Torques II	Axel	Hoffmann	University of Illinois Urbana-Champaign
DD	Alternative Computing Architectures with Spintronic Devices	Avinash Kumar	Chaurasiya	University of Gothenburg
DE	Advanced Modeling and Design of Linear Machines and Magnetic Suspension Systems	Hamed	Hamzehbahmani	Durham University
		Chenguang	Yan	Xi'an Jiaotong University
DF	Vortices and Domain Walls	Ricardo	Rama-Eiroa	The University of Edinburgh
DG	Electronic Structure and Spin Dynamics	Jens	Wiebe	University of Hamburg
DH	Ferromagnetic Resonance and Spin Waves II	Khrystyna	Levchenko	University of Vienna
DP	Advanced Analysis and Design of Permanent Magnet Motors	Anh	Huynh	University of Nottingham
DQ	Simulation and Design Optimization of Electromagnetic Systems I	Shuangxia	Niu	The Hong Kong Polytechnic University
DR	Soft Magnetic Amorphous and Nanocrystalline Materials	Arcady	Zhukov	IKERBASQUE, Basque Foundation for Science
		Rastislav	Varga	RVmagnetics a.s.
DS	Spintronic Devices	Mahmoud	Rasly	Neuranics
DT	Sensors (Non-Recording) II	Sonal	Shreya	Aarhus University
DU	Antiferromagnetic Spintronics I	Xiufeng	Han	Institute of Physics, Chinese Academy of Sciences
EA	Low-Dimensional Quantum Magnets on Surfaces	Amilcar	Bedoya Pinto	University of Valencia
		Jeison	Fischer	University of Cologne
EB	Frontier Research in Magnetism Using Neutrons and Muons	Sean	Langridge	Rutherford Appleton Laboratory
		Russell	Ewings	ISIS Pulsed Neutron and Muon Source
EC	Development of Spintronic Devices	Fanfan	Meng	Imec
ED	All Optical Switching and Ultrafast Magnetization	Mikhail	Cherkasskii	RWTH Aachen University
		Hideki	Hirori	Kyoto University
EE	Simulation and Design Optimization of Electromagnetic Systems II	Wei	Gao	Harbin Institute of Technology Shenzhen Graduate School
		Jiaxin	Yuan	Wuhan University
EF	Magnetic Nanostructures for Biomedical Applications	Montserrat	Rivas	Universidad de Oviedo
EG	Soft Magnetic Materials: From Oxides to Nanocrystalline Alloys	Natalia	Shkodich	University of Duisburg-Essen
EH	Ferromagnetic Resonance and Spin Waves III	Charles	Swindells	NIST
EP	Advanced Magnetics for Transformers, Power Electronics, and Suspension Components	Tsung-Wei	Chang	National Kaohsiung University of Science and Technology
		Po-Wei	Huang	National Cheng Kung University
EQ	Magnetization Dynamics and Micromagnetics II	Nicolas	Reyren	CNRS
ER	Magneto-Elastics and New Coupled Magnetic Phenomena I	Maciej	Krawczyk	Adam Mickiewicz University
ES	Recording Media and Sensors	Ting-Yi	Wu	Huawei Technologies Co., Ltd.

Session		First Name	Last Name	Institution
ET	Antiferromagnetic Spintronics II	Takayuki	Shiino	Institut de Ciència de Materials de Barcelona (ICMAB-CSIC)
		Dominik	Kriegner	Academy of Sciences of the Czech Republic
FA	Kerr Anniversary Symposium	Robert	Hicken	University of Exeter
FB	Electron Spins for Quantum Computing and Sensing	José Carlos	Abadillo-Uriel	Instituto de Ciencia de Materiales de Madrid (ICMM)
FC	Magnetic Order and Control in Two-Dimensional Magnets	Amilcar	Bedoya Pinto	University of Valencia
FD	Innovations in Magnetic Measurements: From Nano to Macroscale Techniques	Valeria	Lauter	ORNL
FE	Permanent Magnet Machines and Magnetically Geared Machines IV	Riham	Hilal	Egypt Japan University of Science and Technology
		Min-Fu	Hsieh	National Cheng Kung University
FF	Emerging Magnetic Materials and Functional Magnetism	Cristina	Favieres	Public University of Navarre
		Javier	Palomares	ICMM-CSIC
FG	Magneto-Caloric Materials	Oliver	Gutfleisch	TU Darmstadt
FH	Magnetic Layered Systems and Their Applications	Christian	Kinane	Rutherford Appleton Lab
GA	Magnetism and Nanomaterials: A Perfect Match for Life Science Applications	Maria	Salvador	Institute of Materials Science of Madrid (ICMM-CSIC)
GB	Today's Debates in Orbitronics	Nicolas	Reyren	CNRS
GC	Antiferromagnetic and Ferrimagnetic Spintronics	Vincent	Baltz	SPINTEC
		Alexander	Chekhov	Freie Universität Berlin
GD	Quantum, Magnonic, and Unconventional Computing	Jayasimha	Atulasimha	Virginia Commonwealth University
GE	Induction and Special Machines	Hamed	Hamzehbahmani	Durham University
GF	Magneto-Elastics and New Coupled Magnetic Phenomena II	Nicola	Morley	University of Sheffield
GG	Energy, Microwave and Sensing Applications I	Karthik	Srinivasan	Boise State University
GH	New Approaches in Simulations of Magnetic Materials	Sergiu	Ruta	Sheffield Hallam University
GP	Hard Magnetic Materials	César	de Julián Fernández	Istituto dei Materiali per l'Elettronica ed il Magnetismo Consiglio Nazionale delle Ricerche
GQ	High-Speed, Induction, and Reluctance Machines	Shuangxia	Niu	The Hong Kong Polytechnic University
		Fei	Zhao	Harbin Institute of Technology (Shenzhen)
GR	Data-Driven and Functional Magnetism: From Quantum Materials to Electromagnetic Systems	Andrea	Meo	Politecnico di Bari
GS	Advances in Magnetic Sensing	Diana	Leitao	Eindhoven University of Technology
GT	Magnetoelectric Materials and Phenomena	Hideki	Kuwahara	Sophia University
HA	Magnetization Dynamics from Spin-Phonon Coupling to Ultrafast	Mara	Strungaru	University of Manchester
HB	Magnetism for Biomedical Applications	Ravi	Hadimani	Virginia Commonwealth University
		Kai	Wu	Texas Tech University
HC	Field-Free Magnetization Switching	Yuqing	Zhou	Huazhong University of Science and Technology
		Van Dai	Nguyen	Interuniversitair Micro-Elektronica Centrum
HD	Ising, Probabilistic, and Unconventional Computing	Victor	González	University of Cambridge
HE	Manipulation of Magnetotransport in Hybrid Structures	Mohammad	Haidar	American University of Beirut
HF	Magnetoresistance in 2D Materials and Textures	Keisuke	Yamada	Gifu University
HG	Magnetoelectric Materials and Complex Oxides	Rocio	Ranchal	Universidad Complutense de Madrid
HH	Ferromagnetic Resonance and Spin Waves IV	Rostyslav	Serha	University of Vienna
HP	Simulation and Design Optimization of Electromagnetic Systems III	Fei	Zhao	Harbin Institute of Technology (Shenzhen)
HQ	Biomedical Application and Magnetofluids	Paola	Tiberto	INRIM
		Yuko	Ichiyangi	Yokohama National University

Session		First Name	Last Name	Institution
HR	Magneto-Caloric and Nanocomposite Materials	Bethanie	Stadler	University of Minnesota
HS	Ferromagnetic Resonance and Spin Waves V	Susmita	Saha	Ashoka University
VP1	Emerging Technologies in Linear Actuators, Magnetic Bearings, and Wireless Charging	Po-Wei	Huang	National Cheng Kung University
VP2	Energy, Microwave and Sensor Applications II	Simon	Greaves	Tohoku University
VP3	High-Speed Machines	Jonathan	Bird	Portland State University
VP4	Permanent Magnet Machines and Magnetically Geared Machines V	Varun	Chaudhary	Chalmers University of Technology
VP5	Simulation and Design Optimization of Electromagnetic Systems IV	Zhuoxiang	Ren	Sorbonne University
VP6	Soft Magnetic Materials and Devices	Kornel	Richter	Technical University of Kosice
		Satoru	Kobayashi	Iwate University
VP7	Special Machines II	Noboru	Niguchi	Osaka University
		Junichi	Asama	Shizuoka University
VP8	Structure, Dynamics, and Functionality in Magnetic Materials	Nikita	Liedienov	Jilin University
		Kaiming	Cai	Huazhong University of Science and Technology
VP9	Surface and Interior Permanent Magnet Machines	Mohamed	Ibrahim	University of Ghent

EDITORS

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FUTURE CONFERENCES

[71st Annual Conference on Magnetism and Magnetic Materials](#)

November 2 - 6, 2026, Honolulu, HI, USA

[2027 Intermag Conference](#)

May 10 - 14, 2027, Jeju Island, South Korea

[23rd International Conference on Magnetism \(ICM\)](#)

June 14 – 18, 2027, San Juan, Puerto Rico

[73rd Annual Conference on Magnetism and Magnetic Materials](#)

October 30 – November 3, 2028, San Antonio, TX, USA

ISIM

Sunday, April 12, 2026
09:00 AM-06:00 PM
Exchange 9

ISIM

Monday, April 13, 2026
09:00 AM-01:00 PM
Exchange 9

ELECTRICAL MACHINES: ARE REAL WORLD CHALLENGES BEING ADDRESSED BY SIMULATION SYSTEMS?

Monday, April 13, 2026
09:00 AM-05:00 PM
Charter 1

IEEE MILESTONE AWARD EVENT "MANCHESTER CODE 1948 - 1949"

Chair(s): T. Thomson, *Dept. of Computer Science, University of Manchester, Manchester, United Kingdom*
Monday, April 13, 2026
02:00 PM-05:00 PM
Offsite - University of Manchester: Kilburn Building

TU: TUTORIAL

Chair(s): H. Yang, *National University of Singapore, Singapore, Singapore*
Monday, April 13, 2026
02:30 PM-05:00 PM
Exchange Auditorium

02:30 PM-02:35 PM**Welcome and Introductions****02:35 PM-03:10 PM****TU-01: AI in Magnetism: Impact, Challenges and Risks – Addressing Fundamental Problems in Magnetism Research Through Artificial Intelligence**Peter Fischer*Lawrence Berkeley National Laboratory, Berkeley CA, USA***03:10 PM-03:45 PM****TU-02: Accelerating Discovery and Synthesis of Novel Magnetic Materials: Why and How AI/ML Can Help?**Cai-Zhuang Wang*Ames National Laboratory, IA, USA***03:45 PM-04:20 PM****TU-03: Magnonics for AI and AI for Magnonics**Gyorgy Csaba*Faculty of Information Technology and Bionics, Pázmány Péter Catholic University, Budapest, Hungary***04:20 PM-04:55 PM****TU-04: Physics-Informed AI for Elucidating Magnetism: Extended Free Energy Framework**Masato Kotsugi*Faculty of Advanced Engineering, Tokyo University of Science*

WELCOME RECEPTION

Monday, April 13, 2026
05:00 PM-06:30 PM
Exchange Hall

YOUNG PROFESSIONALS LIGHTNING TALKS

Monday, April 13, 2026
06:30 PM-08:00 PM
Charter 1

SESSION AA: ADVANCED SOFT MAGNETIC MATERIALS AND DEVICES BRIDGING MAGNETICS AND POWER ELECTRONICS

Co-Chair(s): S. Okamoto, *Tohoku University, Sendai, Miyagi, Japan* and L. Solimene, *DENERG, Politecnico di Torino, Torino, Torino, Italy*
Tuesday, April 14, 2026
08:30 AM-12:00 PM
Exchange Auditorium

08:30 AM-09:00 AM**AA-01. Core Loss Measurement Techniques for Inductors under Practical Power Electronics Circuit**K. Wada*Tokyo Metropolitan University, Hino, Tokyo, Japan*[View Digest Text](#)**09:00 AM-09:30 AM****AA-02. Advances in Magnetics to Meet the Challenges of Powering AI from Grid to Chip**M. Wilkowski*Würth Elektronik, Rockwall, Texas, United States*[View Digest Text](#)**09:30 AM-10:00 AM****AA-03. MagNet Roadmap for Data-Driven Power Magnetics Design**S. Wang, H. Kwon, D. Grigoryan, M. Chen*Princeton University, Princeton, New Jersey, United States*[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-11:00 AM**AA-04. Power Magnetics for High-Efficiency and High-Power-Density Converters**Z. Ouyang*Technical University of Denmark, Kgs.Lyngby, Denmark*[View Digest Text](#)**11:00 AM-11:30 AM****AA-05. Effect of magnetostriction on AC soft magnetic properties of Fe-based nanocrystalline alloys**Z. Tang¹, H. Tsukahara², J. J. Garitaonandia³, N. Ito⁴, A. Kato^{5,6}, S. Okamoto², K. Suzuki¹

¹Materials Science and Engineering, Monash University, Clayton, Victoria, Australia, ²Institute of Multidisciplinary Research for Advanced Materials,, Tohoku University, Sendai, Japan, ³Zientzia eta Teknologia Fakultatea, Euskal Herriko Unibertsitatea, UPV/EHU, Bilbao, Spain, ⁴CBMM Europe B.V., Amsterdam, Netherlands, ⁵Toyota Motor Corporation, Shizuoka, Japan, ⁶National Institute for Materials Science (NIMS), Tsukuba, Japan

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11:30 AM-12:00 PM

AA-06. Unique Hexaplana Ferrites and Composites for HF to VHF Power Management

V. G. Harris^{1,2,3}, V. Nguyen^{1,3}, C. Taylor^{1,2,3}, K. A. Kelley^{1,3,4}, T. T. Pham^{1,3}, Y. Chen⁴, O. Fitchorova^{1,3,4}

¹Electrical and Computer Engineering, Northeastern University, Boston, Massachusetts, United States, ²Chemical Engineering, Northeastern University, Boston, Massachusetts, United States, ³Center for Microwave Magnetic Materials and Integrated Circuits, Northeastern University, Burlington, Massachusetts, United States, ⁴Kostas Research Institute of Northeastern University, Burlington, Massachusetts, United States

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SEAGATE

SESSION AB: ANTIFERROMAGNETS: FROM FUNDAMENTALS TO DEVICES

Co-Chair(s): H. K. Jani, *Physics, University of Oxford, Oxford, United Kingdom* and R. F. Evans, *School of Physics, Engineering and Technology, University of York, York, United Kingdom*

Tuesday, April 14, 2026

08:30 AM-12:00 PM

Charter 1

08:30 AM-09:00 AM**AB-01. Antiferromagnetic spintronics advantage demonstrated in electrical driving of noncollinear antiferromagnet**

S. Fukami

Research Institute of Electrical Communication, Tohoku University, Sendai, Miyagi, Japan

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09:00 AM-09:30 AM**AB-02. Magnetic Transistor with Antiferromagnetic Semiconductor Channel**

L. Liu

Massachusetts Institute of Technology, Cambridge, Massachusetts, United States

[View Digest Text](#)

09:30 AM-10:00 AM**AB-03. Addressing The Readout Problem In Antiferromagnets With Altermagnetic Spintronics**

O. Gomonay

Institute of Physics, Johannes Gutenberg University Mainz, Mainz, Deutschland (DEU), Germany

[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-11:00 AM**AB-04. THz Spin Dynamics and Magnon Torques in Antiferromagnets**

H. Yang, C. Xu, H. Park, Y. Pu, G. Shi

National University of Singapore, Singapore, Singapore

[View Digest Text](#)

11:00 AM-11:30 AM**AB-05. Antiferromagnetic magnonics in the GHz and sub-THz regimes**

A. El Kanj¹, S. Manton¹, S. Massabeau¹, A. Abdelsamie¹, P. gemeiner⁴, K. Bouzehouane¹, S. Dhillon², J. George¹, H. Jaffrès¹, I. Bovenier¹, V. Cros¹, P. Bortolotti¹, B. dkhil⁴, S. Fusil¹, V. Garcia¹, A. Anane¹, O. Gomonay³, R. Lebrun¹

¹Unité mixte de Physique CNRS/Thales, Palaiseau, France, ²Laboratoire de physique de l'Ecole Normale Supérieure, Paris, France,

³Johannes Gutenberg University, Mainz, Germany, ⁴Ecole Centrale Supelec, Gif sur Yvette, France

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11:30 AM-12:00 PM**AB-06. Paradoxes of ultrafast antiferromagnetism and writing of antiferromagnetic bits**

A. Kimel

Radboud Universiteit, Nijmegen, Netherlands

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SESSION AC: SPINTRONIC DEVICES FOR EMERGING INFORMATION AND COMMUNICATION TECHNOLOGIESChair(s): A. Jenkins, *Spintronics, International Iberian Nanotechnology Laboratory, Braga, Portugal*

Tuesday, April 14, 2026

08:30 AM-12:00 PM

Charter 2

08:30 AM-09:00 AM**AC-01. Ultralarge Spin Hall Nano-Oscillator Networks: Nanosecond Phase Ordering with Logarithmic Size Scaling**A. Chaurasiya¹, N. Behera¹, A. Kumar^{1,2,3}, R. Khymyn¹, A. Litvinenko¹, A. A. Awad^{1,2,3}, J. Akerman^{1,2,3}¹*Physics, University of Gothenburg, Gothenburg, Sweden*, ²*Research Institute of Electrical Communication (RIEC), Tohoku University, Sendai, Japan*, ³*Centre for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan*[View Digest Text](#)**09:00 AM-09:30 AM****AC-02. High Density STT-MRAM for Space Computing Platforms**Y. Huai*Avalanche Technology, Fremont, California, United States*[View Digest Text](#)**09:30 AM-09:45 AM****AC-03. A comprehensive framework for evaluating magnetic field induced failure in MRAM and the strategies to achieve superior magnetic immunity**Z. Yan*Zhejiang Hikstor Technology Company Ltd., Hangzhou, Zhejiang, China*[View Digest Text](#)**09:45 AM-10:00 AM****AC-04. Field-free spin Hall nano-oscillators using an exchange-biased antiferromagnet/ferromagnet heterostructure**Y. Yoshida¹, K. Vihanga De Zoysa¹, H. Iida¹, A. Sud¹, T. Dohi¹, A. Kumar^{1,2}, A. A. Awad^{1,2}, S. Kanai¹, H. Ohno¹, J. Akerman^{1,2}, S. Fukami¹¹*Research Institute of Electrical Communication, Tohoku University, Sendai Shi, Miyagi Ken, Japan*, ²*Physics, University of Gothenburg, Gothenburg, Sweden*[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM**AC-05. Oxygen vacancy-driven spin-transfer torque across MgO magnetic tunnel junctions**M. Bowen*IPCMS, Strasbourg, France*[View Digest Text](#)**10:45 AM-11:00 AM****AC-06. Radiofrequency Spintronic Neural Network Enabled by Electrically Modulated Magnetic Tunnel Junctions**Z. Wang¹, Y. Duan¹, C. Chen¹, A. Du¹, Z. Chen¹, S. Lu¹, K. Cao¹, K. Shi^{1,2}, W. Cai^{1,2}, W. Zhao^{1,2}¹*School of Integrated Circuit Science and Engineering, Beihang University, Beijing, Beijing, China*, ²*International Innovation Institute, Beihang University, Hangzhou, Zhejiang, China*[View Digest Text](#)

11:00 AM-11:15 AM**AC-07. Spin-Orbit-Torque Magnetic Tunnel Junction-based Monolithic 3D Integration System for One-Shot Learning**Y. Wang¹, J. Yuan¹, B. Yang¹, J. Xu³, A. Chen², X. Zhang³, J. Tang¹¹Tsinghua University, Beijing, China, ²University of Electronic Science and Technology of China, Chengdu, China, ³King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia[View Digest Text](#)**11:15 AM-11:30 AM****AC-08. Experimental Study of a Vortex Spin-Torque Oscillator in an MTJ with a Vortex Polarizer**M. Stebliy, A. Jenkins, L. C. Benetti, R. Ferreira

INL- International Iberian Nanotechnology Laboratory, Braga, Portugal

[View Digest Text](#)**11:30 AM-11:45 AM****AC-09. Controlling the encirclement of an exceptional point in coupled spintronic nano-oscillators**N. Phan², K. Ho², S. Perna¹, S. Wittrock³, S. Tsunegi⁴, H. Kubota⁴, S. Yuasa⁴, P. Bortolotti², M. d'Aquino¹, C. Serpico¹, V. Cros², R. Lebrun²¹Department of Electrical Engineering and ICT, University of Naples Federico II, Naples 80125, Italy, ²Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau 91767, France, ³Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Hahn-Meitner-Platz 1, Berlin 14109, Germany, ⁴National Institute of Advanced Industrial Science and Technology (AIST), Ibaraki 305-8568, Japan[View Digest Text](#)**11:45 AM-12:00 PM****AC-10. A Programmable In-Situ Logic-in-Memory with Full Boolean and Arithmetic Functions through Voltage-Gated Spin-Orbit Torque**Z. Liu^{1,3,4}, J. Lu², L. Jiahao^{1,3,4}, W. Li², X. Gui¹, S. Lu¹, H. Zhang¹, K. Cao¹, W. Xue⁵, X. Xu⁵, W. S. Zhao^{1,3,4}, S. Peng^{1,3,4}¹Fert Beijing Institute, School of Integrated Circuit Science and Engineering, Beihang University, Beijing, China, ²National Innovation Institute of Defense Technology, Academy of Military Sciences, Beijing, China, ³National Key Laboratory of Spintronics, Hangzhou International Innovation Institute, Beihang University, Hangzhou, China, ⁴Hefei Innovation Research Institute, Beihang University, Hefei, China, ⁵School of Chemistry and Materials Science, Shanxi Normal University, Taiyuan, China[View Digest Text](#)

SESSION AD: ALTERMAGNETS

Co-Chair(s): K. Belashchenko, *Department of Physics and Astronomy, University of Nebraska-Lincoln, Lincoln, Nebraska, United States* and E. Del Barco, *University of Central Florida, Orlando, Florida, United States*

Tuesday, April 14, 2026

08:30 AM-12:00 PM

Charter 3

08:30 AM-09:00 AM**AD-01. Symmetry-Driven Spin Phenomena in Mn₅Si₃ Thin Films: Unveiling Altermagnetic Behavior**

J. Rial¹, M. Leiviska², A. Badura³, I. Kounta⁴, G. Skobjin⁵, S. Beckett⁶, C. Pfaff¹, J. Mencos⁷, R. Lopes Seeger¹, G. Gaudin¹, F. Disdier¹, R. Schlitz⁵, D. Kriegner², A. Thomas⁶, E. Schmoranzarová³, M. Petit⁴, F. Casanova⁷, L. Šmejkal⁸, J. Sinova⁹, T. Jungwirth², S. Goennenwein⁵, H. Reichlova², L. Michez⁴, O. Gomonay⁹, V. Baltz¹

¹SPINTEC, Grenoble, France, ²Czech Academy of Sciences, Prague, Czechia, ³Charles University, Prague, Czechia, ⁴CINaM, Marseille, France, ⁵Universität Konstanz, Konstanz, Germany, ⁶IFW, Dresden, Germany, ⁷CIC nanoGUNE, Donostia-San Sebastián, Spain, ⁸MPI, Dresden, Germany, ⁹JGU, Mainz, Germany

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09:00 AM-09:15 AM**AD-02. Large Intrinsic Spin Hall Effect Enabled by Spin-Orbit Coupling in the Altermagnet CrSb**

N. Menai¹, C. Woodgate¹, P. Shukla², D. Stewart², M. Gradhand³

¹University of Bristol, Bristol, Bristol, United Kingdom, ²Western Digital, San Jose, California, United States, ³Johannes Gutenberg University, Mainz, Germany

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09:15 AM-09:30 AM**AD-03. Altermagnetic magnons in CrSb: where is the predicted energy splitting?**

M. dos Santos Dias¹, N. Biniskos², S. Agrestini³, D. Sviták², K. Zhou³, J. Pospíšil², P. Čermák²

¹Scientific Computing, STFC Daresbury Laboratory, Warrington, United Kingdom, ²Condensed Matter Physics, Charles University, Prague, Czechia, ³Diamond Light Source Ltd, Harwell, United Kingdom

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09:30 AM-09:45 AM**AD-04. Non-Altermagnetic Origin of Exchange Bias Behaviors at RuO₂/Ferromagnet Interfaces**

S. Fields¹, J. Prestigiacomo¹, C. Cress¹, N. Combs¹, O. M. van 't Erve¹, P. Callahan¹, K. Knipling¹, M. E. Jamer², F. M. Abel², F. Ye³, A. Minelli³, Z. Morgan³, H. Ambaye³, M. matsuda³, A. Maity³, V. Lauter³, S. P. Bennett¹

¹The U.S. Naval Research Laboratory, Washington, District of Columbia, United States, ²The U.S. Naval Academy, Annapolis, Maryland, United States, ³Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States

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09:45 AM-10:00 AM**AD-05. Metallic p-wave magnetism realized by a commensurate spin helix**

R. Yamada¹, M. Birch², S. Okumura¹, J. Masell^{3,2}, M. M. Hirschmann², M. Hirschberger^{1,2}

¹The University of Tokyo, Bunkyo-ku, Japan, ²Center for Emergent Matter Science, RIKEN, Wako, Japan, ³Institute of Theoretical Solid State Physics, Karlsruhe Institute of Technology, Karlsruhe, Germany

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10:00 AM-10:30 AM

Break

10:30 AM-11:00 AM

AD-06. Spontaneous symmetry lowering and tunable anomalous Hall effect in epitaxial MnTe grown on GaAs(111)

B. A. Assaf, S. Bey

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

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11:00 AM-11:15 AM

AD-07. Quantum Geometry of Altermagnetic Magnons Probed by Light

R. Yuan¹, W. J. Jankowski¹, K. Shen², R. Slager^{3,1}

¹*TCM Group, Cavendish Lab, University of Cambridge, Cambridge, United Kingdom*, ²*Beijing Normal University, Beijing, China*,

³*Physics, University of Manchester, Manchester, United Kingdom*

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11:15 AM-11:30 AM

AD-08. Epitaxial Growth of Altermagnetic Thin Films via Magnetron Co-sputter Deposition

D. Scheffler, S. P. Bommanaboyena, C. Mueller, F. Krizek, A. Badura, H. Reichlova, T. Jungwirth, D. Kriegner

Academy of Sciences of the Czech Republic, Prague, Czechia

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11:30 AM-11:45 AM

AD-09. Magnon transport and surface effect in an altermagnetic toy model

M. Kundu¹, R. Schmidhuber², M. Duelli¹, L. Szunyogh³, U. Nowak¹

¹*Physics, University of Konstanz, Konstanz, Baden Württemberg, Germany*, ²*Physics, Ludwig-Maximilians-University Munich,*

Munich, Bavaria, Germany, ³*Theoretical Physics, Budapest University of Technology and Economics, Budapest, Budapest, Hungary*

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11:45 AM-12:00 PM

AD-10. Piezomagnetism in altermagnets

M. Khodas¹, S. Mu², I. Mazin³, K. Belashchenko⁴

¹*Racah Institute of Physics, The Hebrew University of Jerusalem, Jerusalem, Israel*, ²*Department of Physics and Astronomy,*

University of South Carolina, Columbia, South Carolina, United States, ³*Department of Physics and Astronomy, George Mason*

University, Fairfax, Virginia, United States, ⁴*Department of Physics and Astronomy, University of Nebraska-Lincoln, Lincoln,*

Nebraska, United States

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SESSION AE: NDFEB AND OTHERS RE COMPOUNDS FOR HARD MAGNETIC MATERIALSChair(s): P. Jenuš Belec, *Department for Nanostructured Materials, Jozef Stefan Institute, Ljubljana, Slovenia*

Tuesday, April 14, 2026

08:30 AM-12:00 PM

Charter 4

08:30 AM-09:00 AM**AE-01. Development of high-performance anisotropic magnetic powders**Q. Gao, Z. Lin, T. Zhu, D. Liang, W. Yang, J. Han, [J. Yang](#)*School of Physics, Peking University, Beijing, China*[View Digest Text](#)**09:00 AM-09:15 AM****AE-03. DFT calculations of magnetocrystalline anisotropy energy with fixed spin moment**J. Snarski-Adamski¹, J. Marciniak^{1,2}, W. Marciniak^{1,2,3}, J. Rychly-Gruszecka¹, [M. Werwinski](#)¹¹ *Department of Theory of Nanostructures and Quantum Materials, Institute of Molecular Physics Polish Academy of Sciences, Poznan, Poland,* ² *Department of Physics and Astronomy, Uppsala University, Uppsala, Sweden,* ³ *Faculty of Materials Engineering and Technical Physics, Poznan University of Technology, Poznan, Poland*[View Digest Text](#)**09:15 AM-09:30 AM****AE-04. Rapid Heating Process for High-Density Nd-Fe-B Magnet Plates via Electrically Heated Powder Rolling: Microstructure and Magnetic Properties**[J. Kim](#)¹, Y. Hirayama¹, S. Sugimoto^{1,2}, A. Suzuki³, M. Nozaki³¹ *National Institute of Advanced Industrial Science and Technology (AIST), Nagoya, Aichi, Japan,* ² *Tohoku University, Sendai, Miyagi, Japan,* ³ *S. S. Alloy Co., Ltd., Higashi-hiroshima, Hiroshima, Japan*[View Digest Text](#)**09:30 AM-09:45 AM****AE-05. Determining the anisotropy field of permanent magnets: A comparison of current methodologies**[A. Aubert](#), K. Skokov, O. Gutfleisch*Technische Universität Darmstadt, Darmstadt, Germany*[View Digest Text](#)

09:45 AM-10:30 AM

Break

10:30 AM-11:00 AM**AE-06. Perfecting RE-TM permanent magnets: First-principles calculations of consequences of lattice imperfections on magnetic properties**[C. Patrick](#)*Physics, University of Warwick, Coventry, United Kingdom*[View Digest Text](#)**11:00 AM-11:15 AM****AE-07. New insights into the magnetism of DyCo₅**[A. Vishina](#)¹, K. Skokov², H. Tsuchiura³, O. Eriksson¹, H. C. Herper¹¹ *Uppsala Universitet, Uppsala, Sweden,* ² *Technische Universität Darmstadt, Darmstadt, Germany,* ³ *Tohoku University, Sendai, Japan*[View Digest Text](#)

11:15 AM-11:30 AM**AE-08. A combinatorial study of the formation of high coercivity Sm(Fe,V)₁₂ in a post-deposition annealed compositionally graded film**

H. Jaballah, P. Le Berre, W. Rigaut, L. Fink, R. Haettel, E. Bellec, N. Blanc, T. Devillers, [N. Dempsey](#)
Institut Néel CNRS, Grenoble, France

[View Digest Text](#)**11:30 AM-11:45 AM****AE-09. Cold Spray Additive Manufacturing of SmFeN Magnets**

[F. Bernier](#)¹, B. Guerreiro¹, J. Lamarre¹, J. Giguère², F. Sirois²

¹Automotive and Surface Transportation, National Research Council Canada, Boucherville, Quebec, Canada, ²Génie Electrique, Polytechnique Montréal, Montreal, Quebec, Canada

[View Digest Text](#)**11:45 AM-12:00 PM****AE-10. Ultrahigh coercivities in Sm₅Fe₁₇-based composite magnets**

[I. Dirba](#)¹, S. Ener¹, A. Kovács², R. K. Paul¹, H. Sepehri-Amin³, K. Skokov¹, Y. Skourski⁴, K. Hono³, O. Gutfleisch¹

¹Institute of Materials Science, Technical University of Darmstadt, Darmstadt, Hessen, Germany, ²Ernst Ruska-Centre for Microscopy and Spectroscopy with Electrons, Forschungszentrum Jülich, Jülich, Germany, ³National Institute for Materials Science (NIMS), Tsukuba, Japan, ⁴Helmholtz-Zentrum Dresden-Rossendorf, Dresden-Rossendorf, Germany

[View Digest Text](#)**SESSION AF: EXPLORING COMPLEX MAGNETIC STATES WITH ADVANCED MAGNETIC IMAGING**

Chair(s): [A. Hierro-Rodriguez](#), *Departamento de Física, Universidad de Oviedo, Oviedo, Asturias, Spain*

Tuesday, April 14, 2026

08:30 AM-12:00 PM

Exchange 9

08:30 AM-09:00 AM**AF-01. Statics and dynamics of complex magnetic states in microstructures**

[A. Finco](#)

Laboratoire Charles Coulomb, CNRS/Université de Montpellier, Montpellier, France

[View Digest Text](#)**09:00 AM-09:15 AM****AF-02. GHz noise characterization and magnetization reconstruction in a Scanning Magnetometer: A comparative study using scanning NV and MOKE**

M. Pompe, [B. Josteinsson](#), S. Josephy, A. Morales, Z. Xu, G. P. Hellman

QZabre, Zurich, Switzerland

[View Digest Text](#)**09:15 AM-09:30 AM****AF-03. Imaging magnetization reversal of pinwheel Artificial Spin Ice with an ensemble of NV centers in diamond**

[K. Everaert](#)^{1,2}, S. Ravan^{1,2,3}, J. Cremer^{2,3}, A. Yacoby³, R. Walsworth^{1,2,4}

¹Department of Physics, University of Maryland, College Park, Maryland, United States, ²Quantum Technology Center, University of Maryland, College Park, Maryland, United States, ³Department of Physics, Harvard University, Cambridge, Massachusetts, United States, ⁴Department of Electrical Engineering and Computer Science, University of Maryland, College Park, Maryland, United States

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09:30 AM-09:45 AM**AF-04. Magneto-optical Kerr Microscopy on Non-planar Geometries**L. Zhao¹, A. Rabensteiner¹, M. A. Cascales-Sandoval¹, N. Leo^{1,2}, J. M. Jurczyk¹, S. Koraltan¹, A. Fernández-Pacheco¹¹Institute of Applied Physics, TU Wien, Vienna, Austria, ²Department of Physics, Loughborough University, Loughborough, United Kingdom[View Digest Text](#)**09:45 AM-10:00 AM****AF-05. Magneto-Optical Detection of Magnetic Configurations in Quasi In-Plane Bi:YIG**J. Hnilica^{1,2}, M. Otýpka¹, L. Ranno^{1,2}¹QUEST, Institut Néel CNRS, Grenoble, Isère, France, ²Université Grenoble Alpes, Grenoble, France[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-11:00 AM**AF-06. Magnetic Imaging via Tip-Induced Local Anomalous Nernst Effect: from Weyl Semimetals to High-Entropy Alloys**H. Isshiki^{1,2}¹Advanced Science Research Center, Japan Atomic Energy Agency, Tokai, Ibaraki, Japan, ²Institute for Solid State Physics, The University of Tokyo, Kashiwa-no-ha, Chiba, Japan[View Digest Text](#)**11:00 AM-11:15 AM****AF-08. Skyrmionic cocoons imaged in three dimensions using HERALDO reconstructions in aperiodic magnetic multilayers**J. J. Chiliquinga¹, M. Grelier^{1,2}, R. Battistelli³, W. Bouckaert¹, K. Puzhekadavil Joy^{3,4}, S. Collin¹, F. Godel¹, M. Di Pietro Martinez⁵, C. Donnelly⁵, F. Büttner^{3,4}, H. Popescu⁶, V. Cros¹, N. Jaouen⁶, N. Reyren¹¹Laboratoire Albert Fert, Palaiseau, Île-de-France, France, ²Spin-ion, Palaiseau, France, ³Helmholtz-Zentrum Berlin, Berlin, Germany, ⁴University of Augsburg, Augsburg, Germany, ⁵Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, ⁶Synchrotron SOLEIL, Saint Aubin, France[View Digest Text](#)**11:15 AM-11:30 AM****AF-09. Unconventional Skyrmions States in a Compensated Synthetic Antiferromagnet Revealed by Correlative Imaging**K. Fallon¹, R. Peremadathil-Pradeep², C. Barker^{3,7}, Z. Tumbleson⁴, E. Darwin², A. Meo⁵, E. Haltz⁶, B. A. Brereton⁷, T. Almeida¹, C. Kirkbride¹, S. Villa¹, S. A. Morley⁸, M. Carpentieri⁵, R. Tomasello⁵, H. J. Hug², C. Marrows⁷, S. McVitie¹¹School of Physics and Astronomy, University of Glasgow, Glasgow, Other (Non U.S.), United Kingdom, ²Swiss Federal Laboratories for Material Science and Technology (Empa), Duebendorf, Switzerland, ³National Physics Laboratory, Teddington, United Kingdom, ⁴Department of Physics, University of California, Santa Cruz, California, United States, ⁵Department of Electrical and Information Engineering, Politecnico di Bari, Bari, Italy, ⁶LSPM-CNRS, Sorbonne Paris Nord University, Villetaneuse, France, ⁷School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom, ⁸Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, California, United States[View Digest Text](#)**11:30 AM-11:45 AM****AF-10. Mie-enhanced microfocused Brillouin light scattering for wave vector resolution of short-wavelength spin waves**J. Krcma², O. Wojewoda^{1,2}, M. Hrton², J. Holobradek², J. A. Arregi², J. Panda², E. Pribytova², M. Urbánek²¹DMSE, Massachusetts Institute of Technology, Brno, Czechia, ²CEITEC, Brno University of Technology, Brno, Czechia[View Digest Text](#)

SESSION AG: MAGNETIC NANOPARTICLES

Co-Chair(s): E. L. Winkler, *Magnetismo y Materiales Magnéticos, Centro Atómico Bariloche, S. C. de Bariloche, Argentina* and L. Marcano, *Physics, Oviedo University, Gijón, Asturias, Spain*

Tuesday, April 14, 2026

08:30 AM-12:00 PM

Exchange 10

08:30 AM-08:45 AM

AG-01. Intrinsic Magnetic Anisotropy in $\text{Co}_x\text{Fe}_{3-x}\text{O}_4$ Nanoparticles

D. Liguori¹, B. Muzzi², G. S. Gomide³, I. Golosovsky⁴, I. Kibalin⁵, I. Puente-Orench^{6,7}, J. Nogués^{8,9}, A. López-Ortega¹

¹Science Department, UPNA, Pamplona, Navarra, Spain, ²ICCOM-CRN, Sesto Fiorentino, Italy, ³Universidade de Brasília, Brasília, Brazil, ⁴National Research Center "Kurchatov Institute", Gatchiba, Russian Federation, ⁵Laboratoire Léon Brillouin, Grenoble, France, ⁶Institut Laue Langevin, Grenoble, France, ⁷Instituto de NanoCiencia y Materiales de Aragón, Zaragoza, Spain, ⁸Catalan Institute of Nanoscience and Nanotechnology, Barcelona, Spain, ⁹ICREA, Barcelona, Spain

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08:45 AM-09:00 AM

AG-02. Synthesis of and New Functionality in Heteroepitaxial Gallate/Ferrite Core@Shell Nanoparticles

S. Jan¹, R. Das², A. I. Ojo¹, Y. Wadumesthri¹, R. Roy Chowdhury¹, H. Rodríguez Gutiérrez¹, D. Honecker³, S. Parnell³, J. Borchers⁴, H. Srikanth¹, D. A. Arena¹

¹Physics, University of South Florida, Tampa, Florida, United States, ²Dept. of Engineering Technology, South East Technical University, Waterford, Ireland, ³ISIS Muon and Neutron Source, Didcot, United Kingdom, ⁴NIST Center for Neutron Research, National Institute of Standards and Technology, Gaithersburg, Maryland, United States

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09:00 AM-09:15 AM

AG-03. Combined effect of shape and magnetocrystalline anisotropy in a 40 nm single-domain Fe_3O_4 nanoparticle measured by μ -SQUIDs

S. Maity¹, U. Thuwal¹, H. Courtois², C. Winkelmann², A. Gupta¹

¹Physics, Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh, India, ²Physics, Univ. Grenoble Alpes, Grenoble, France

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09:15 AM-09:30 AM

AG-04. Morphology-Controlled Magnetite Nanoparticles: From Spheres to Nanorods

M. Horcajo², J. Alonso¹, P. de la Presa²

¹Institute of Materials Science of Madrid (ICMM-CSIC), Madrid, Spain, ²Institute of Applied Magnetism, Complutense University of Madrid, Madrid, Spain

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09:30 AM-09:45 AM

AG-05. Including nanoparticle shape into macrospin models

I. López Vázquez^{1,2}, D. Serantes^{1,2}, O. Iglesias³

¹Department of Applied Physics, University of Santiago de Compostela, Santiago de Compostela, A Coruña, Spain, ²Instituto de Materiais (iMATUS), Santiago de Compostela, A Coruña, Spain, ³Condensed Matter Physics Department, University of Barcelona, Barcelona, Barcelona, Spain

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09:45 AM-10:00 AM

AG-06. From Linear Response Theory to Thermodynamic Modeling: An Assessment of Specific Loss Power in Superparamagnetic Nanoparticle Suspensions

J. Araújo, C. Iglesias, R. A. Pinto, E. F. da Silva, M. Correa, F. Bohn

Department of Physics, Universidade Federal do Rio Grande do Norte, Natal, RN, Brazil

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10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM

AG-07. Design of nanoparticle inductor materials with large susceptibility for printable high-frequency power electronics

M. Zambach¹, M. Beleggia², [C. Frandsen](#)¹

¹Physics, Technical University of Denmark, Kgs. Lyngby, Denmark, ²Physics, University of Modena, Modena, Italy

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10:45 AM-11:00 AM

AG-09. Scalable Microwave-Polyol Synthesis of Metallic Magnetic Nanoparticles Toward Emerging Applications

[M. Salvador](#)¹, Y. Fernandez-Afonso¹, C. Díaz-Ufano¹, A. Santana-Otero¹, A. Van Zomeren³, S. Bertran-Llorens³, V. Beni², S. Veintemillas-Verdaguer¹, M. d. Morales¹

¹Nanoscience and Nanotechnology, Institute of Materials Science of Madrid (ICMM-CSIC), Madrid, Madrid, Spain, ²RISE Research Institutes of Sweden, Norrköping, Sweden, ³The Netherlands Organisation for Applied Scientific Research (TNO), Petten, Netherlands

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11:00 AM-11:15 AM

AG-11. Exchange-Biased CoFe/IrMn Three-Dimensional Microwires

[B. Singh](#)¹, A. Singh^{2,3}, S. Mikulik¹, J. Jurczyk¹, V. Neu³, A. Fernández-Pacheco¹

¹Institute of Applied Physics, TU Wien, Vienna, Vienna, Austria, ²Institute of Applied Physics, TU Dresden, Dresden, Germany,

³Institute for Solid State and Materials Research Dresden, Dresden, Germany

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11:15 AM-11:30 AM

AG-12. Evolution of Exchange Bias with Ferromagnetic Ordering and Robust Memory Effect in Strained MoS₂ via Antiferromagnetic Gating

[S. Bhattacharya](#), I. A. Kuhne

Institute of Physics FZU, Department of Condensed Matter Physics and Functional Materials, Academy of Sciences of the Czech Republic, Prague, Prague, Czechia

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SESSION AH: ENGINEERING MAGNETISM IN THIN FILMS AND MULTILAYERS

Chair(s): A. K. Dhiman, *Institute of Molecular Physics, Polish Academy of Sciences, Poznan, Poland* and José Miguel Garcia-Martin, *CSIC, Spain*
 Tuesday, April 14, 2026
 08:30 AM-12:00 PM
 Exchange 11

08:30 AM-08:45 AM**AH-02. Modulation of Intrinsic Magnetic Properties in Iron Nitride Thin Film on MgO(001) Single-Crystal Substrate through Nitrogen-Induced bcc-fcc Phase Variation**

K. Imamura¹, T. Sato¹, S. Isogami², T. Yamazaki³, M. Kotsugi³, M. Ohtake¹

¹*Yokohama National University, Yokohama, Japan*, ²*National Institute for Materials Science (NIMS), Tsukuba, Japan*, ³*Tokyo University of Science, Tokyo, Japan*

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08:45 AM-09:00 AM**AH-03. Iron Garnet Heterostructure Engineering**

C. A. Ross¹, T. P. Grossmark¹, R. Huynh¹, P. Fourmont¹, E. Park¹, F. M. Ross¹, H. Shin², Y. Kang^{2,1}, S. Cloutier³

¹*Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States*, ²*Korea National University of Transportation, Chungju, Korea (the Republic of)*, ³*École de Technologie Supérieure, Montreal, Quebec, Canada*

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09:00 AM-09:15 AM**AH-04. Improvement on tunnel magnetoresistance and magnetic properties of CoFeB/MgO/CoFeB on textured seed layer**

T. Tran^{2,1}, G. Talmelli¹, S. Mertens¹, X. Piao^{3,1}, R. Carpenter¹, C. Merckling^{2,1}

¹*Imec, Leuven, Belgium*, ²*Department of Materials Engineering, KU Leuven, Leuven, Belgium*, ³*The Institute for Solid State Physics, The University of Tokyo, Tokyo, Japan*

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09:15 AM-09:30 AM**AH-05. Origin of magnetic dead layer in La_{0.67}Sr_{0.33}MnO₃ ultrathin films**

V. A. Lima^{1,2}, F. R. Estrada¹, P. C. Santos^{1,3}, R. A. Pereira^{1,3}, K. L. Agra², P. Schio¹, J. Criginski Cezar¹, T. J. Mori¹

¹*Brazilian Synchrotron Light Laboratory, Brazilian Center for Research in Energy and Materials, Campinas, São Paulo, Brazil*, ²*Unidade Acadêmica de Física, universidade Federal de Campina Grande, Campina Grande, Brazil*, ³*Instituto de Física Gleb Wataghin, Universidade Estadual de Campinas, Campinas, Brazil*

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09:30 AM-10:00 AM**AH-07. Designing thin film properties on the nanoscale with direct-write laser annealing for spintronics**

L. Riddiford^{1,2}

¹*ETH Zurich, Zurich, Switzerland*, ²*Paul Scherrer Institute, Villigen, Switzerland*

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10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM**AH-08. Harnessing Pt/W Multilayers for Efficient Field-Free Spin-Orbit Torque Switching**

B. Jamshed[^], S. Das, D. Kumar, H. Rahaman, M. Ramu, S. Piramanayagam

SPMS, Nanyang Technological University, Singapore, Singapore, Singapore

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10:45 AM-11:00 AM

AH-09. Revisiting Seed Thickness: When Improved Texture Does Not Enhance Perpendicular Magnetic Anisotropy in Co/Pt MultilayersR. Ehrler^{1,3}, F. Engelhardt^{1,2,3}, O. Hellwig^{1,3,4}¹Institute of Physics, Chemnitz University of Technology, Chemnitz, Germany, ²Institute of Chemistry, Chemnitz University of Technology, Chemnitz, Germany, ³Research Center MAIN, Chemnitz University of Technology, Chemnitz, Germany, ⁴Institute of Ion Beam Physics and Materials Research, HZDR, Dresden, Germany[View Digest Text](#)

11:00 AM-11:15 AM

AH-10. Bloch's Law in the Ultrathin Film Limit

J. Shuai, D. Goli, S. Connell, T. A. Moore, J. Barker, C. Marrows

School of Physics and Astronomy, University of Leeds, Leeds, West Yorkshire, United Kingdom

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11:15 AM-11:30 AM

AH-11. Perpendicular magnetic anisotropy in thick Si/Ni multilayersM. Pregelj^{1,2}, A. Hromov^{1,2}, M. Panjan¹, M. Tadić³, A. Zorko^{1,2}¹Jozef Stefan Institute, Ljubljana, Slovenia, ²Faculty of Mathematics and Physics, University of Ljubljana, Ljubljana, Slovenia, ³Condensed Matter Physics Laboratory, Vinča Institute of Nuclear Sciences – National Institute of the Republic of Serbia, Belgrade, Serbia[View Digest Text](#)**SESSION AP: ADVANCES IN 2D AND MOLECULAR MAGNETS (POSTER SESSION)**

Chair(s): I. Rozhansky, University of Manchester, Manchester, United Kingdom

Tuesday, April 14, 2026

09:00 AM-12:00 PM

Exchange Hall

AP-01. Magnetic phase transition in VS₂ revealed by Yanson point-contact spectroscopyO. Kvitnytska^{1,2}, D. Bashlakov², S. Aswartham¹, G. Shipunov¹, D. Efremov¹, B. Buchner^{1,3}, Y. Naidyuk²¹Leibniz Institute for Solid State and Materials Research (IFW) Dresden, Dresden, Germany, ²B. Verkin Institute for Low Temperature Physics and Engineering of the National Academy of Sciences of Ukraine, Kharkiv, Ukraine, ³Institute of Solid State and Materials Physics and Würzburg-Dresden Cluster of Excellence ct.qmat, Technische Universität Dresden, Dresden, Germany[View Digest Text](#)**AP-02. Tunable Magnetism and Multifunctionality in Non-vdW Cr₃TMSe₆: A First-Principles Study**Y. G. Berhe¹, S. You^{1,2}, H. Kim^{1,2}, N. Kim¹¹Physics, Soongsil University, Suwon-Si, Gyeonggi-do, Korea (the Republic of), ²Physics, OMEG Institute, Suwon-Si, Gyeonggi, Korea (the Republic of)[View Digest Text](#)**AP-05. Gate controlled magnetoresistances on antiferromagnetic semiconductor two-dimensional material**D. Borowski¹, M. Soliman², J. Garrido Aldea^{3,4}, D. Luis Esteras Córdoba³, J. Dayen¹¹DMONS, IPCMS, Strasbourg, France, ²ISIS, Strasbourg, France, ³ICN2, Bellaterra, Spain, ⁴Universitat Autònoma de Barcelona, Barcelona, Spain[View Digest Text](#)**AP-06. Theoretical Studies of an Artificial Spin Ice on the Amman-Beenker Tiling**

E. Weightman, L. O'Brien, S. Coates

University of Liverpool, Liverpool, United Kingdom

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AP-08. Longitudinal Transport Properties in All-epitaxial Fe_{5-x}GeTe₂/WSe₂ Van der Waals Heterostructures

H. Lv¹, J. Herfort¹, C. Chen², J. M. Redwing², R. Engel-Herbert¹, J. J. Lopes¹

¹Paul-Drude-Institut für Festkörperelektronik, Leibniz-Institut im Forschungsverbund Berlin e. V., Berlin, Germany, ²2D Crystal Consortium Materials Innovation Platform, Materials Research Institute, The Pennsylvania State University, Pennsylvania, Pennsylvania, United States

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AP-09. Low-temperature Ferromagnetism and Giant Coercivity in a Coordination Polymer with a Bis(phosphinic acid) Ligand

L. Kubickova^{1,2}, S. Ondrusova^{3,4}, M. Kloda³, J. Demel³, M. Rozprym², M. Veverka², T. Kmjec², J. Kohout²

¹FZU - Institute of Physics of the Czech Academy of Sciences, Prague 6, Czechia, ²Faculty of Mathematics and Physics, Charles University, Prague 8, Czechia, ³Institute of Inorganic Chemistry of the Czech Academy of Sciences, Rez, Czechia, ⁴Faculty of Science, Charles University, Prague 2, Czechia

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AP-10. Tuning Magnetic Properties Through Metal-Metal Separation in Ionothermal-Synthesis Lanthanide Acetate Complexes

O. Cakir, E. R. Crawford, D. M. Wilkins, S. Felton, P. Nockemann

Queens University of Belfast, Belfast, County Antrim, United Kingdom

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AP-11. Substrate Driven Topological Spin Textures in Twisted Van der Waals Antiferromagnet

Z. Yang¹, J. Ross¹, E. Santos^{1,2}

¹School of Physics and Astronomy, University of Edinburgh, Edinburgh, Edinburgh, United Kingdom, ²Donostia International Physics Center, Donostia-San Sebastián, Spain

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SESSION AQ: ELECTROMAGNETIC DESIGN AND MODELING OF LINEAR ACTUATORS AND SUSPENSION SYSTEMS (POSTER SESSION)

Co-Chair(s): P. Huang, Mechanical Engineering, National Cheng Kung University, Tainan, Taiwan and A. Sutor, UMIT TIROL, Tirol, Austria

Tuesday, April 14, 2026

09:00 AM-12:00 PM

Exchange Hall

AQ-01. Development of a slim-width microspeaker for smartwatches using a new magnetic circuit design

Y. Jeong¹, Y. Oh¹, D. Xu², S. Hwang¹

¹Department of Mechanical Engineering, Pusan National University, Busan, Korea (the Republic of), ²Shanghai University, Shanghai, China

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AQ-02. Design of a Consequent Pole Slotless Motor Applying Asymmetric Pole

D. Choi, H. Han, D. Shin, S. Jeon, W. Kim

Electrical Engineering, Gachon university, Seongnam-si, Gyeonggi-do, Korea (the Republic of)

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AQ-03. Electromagnetic Modeling of Coil Integrated With Propulsion Levitation and Guidance for EDS Trains

Z. Li¹, H. Zhang^{1,2}, K. Lv¹

¹The School of Electrical Engineering & Automation, Harbin Institute of Technology, Harbin, China, ²Suzhou Research Institute of HIT, Suzhou, China

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AQ-04. Study on Improving the Magnetic Properties of Nd-Fe-B Multi-Pole Magnetized Ring Magnets

H. Komura, A. Yamane, K. Hanashima, T. Suzuki, Y. Okawara

MinebeaMitsumi Inc., Fukuroi, Shizuoka, Japan

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AQ-05. Compensation of FEM Based Wrench–Current Vector for Precise Levitation Control in Maglev Planar Motors

K. Nakata¹, W. Ohnishi¹, T. Koseki¹, Y. Nakamura², K. Takahashi², H. Sekiguchi²

¹*Electrical Engineering and Information Systems, The University of Tokyo, Bunkyo-ku, Tokyo, Japan*, ²*Mitsubishi Electric, Amagasaki, Japan*

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AQ-07. Improved Analytical Modeling of Induced Currents in Null-Flux Coils for Electrodynamics Suspension Systems

K. Lv¹, H. Zhang^{1,2}, Z. Li¹

¹*The School of Electrical Engineering & Automation, Harbin Institute of Technology, Harbin, China*, ²*Suzhou Research Institute of HIT, Suzhou, China*

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AQ-08. Magneto-acoustic coupled FEA with compressing sensing for ITSC fault diagnosis of Na cooled annular linear induction pump

W. Liu^{1,2}, S. Cai^{1,2}, D. Mo³, X. Guan³

¹*Research Institute of Nuclear Power Operation, Wuhan, China*, ²*China Nuclear Power Operation Technology Corporation, Wuhan, China*, ³*Fuzhou University, Fuzhou, China*

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AQ-09. Permanent-Magnet Linear Magnetic Coupling for Actuators in Ultra-High Vacuum

J. Emery¹, C. Besson², F. Roncarolo¹, C. Pasquino¹, W. Andreazza¹, H. Sullivan¹

¹*Beam Instrumentation, CERN, Genève, Switzerland*, ²*School of Engineering and Management Vaud, University of Applied Sciences of Western Switzerland, Yverdon-les-Bains, Switzerland*

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AQ-10. Hybrid Magnetic Circuit Design for Micro Speakers Using Localized Permendur Application

Y. Oh¹, Y. Jeong¹, D. Xu², S. Hwang¹

¹*Mechanical Engineering, Pusan National University, Pusan, Korea (the Republic of)*, ²*School of Mechatronic Engineering and Automation, Shanghai University, Shanghai, China*

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AQ-11. Fully Coupled Dynamic Analysis and Multi-Objective Optimization of a High-Speed Solenoid Valve

R. Wang^{1,2}, X. Li³, C. Du², M. Zhang¹, Y. Yang¹

¹*School of Electrical and Electronic Engineering, Huazhong University of Science and Technology, Wuhan, Hubei, China*, ²*Department of Engineering, University of Cambridge, Cambridge, Cambridgeshire, United Kingdom*, ³*Granta Advanced Magnetics and Electronics Limited, Cambridge, Cambridgeshire, United Kingdom*

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AQ-12. Power Factor Improvement for a Magnetic-Geared Flat Linear Machine with Halbach Permanent Magnet Arrays

X. Liu^{1,2}, W. Zhao^{1,2}, Y. Wang³

¹*College of Electrical and Information Engineering, Hunan University, Changsha, Hunan, China*, ²*State Key Laboratory of Offshore Wind Power Equipment and High-efficient Utilization Wind Energy, Hunan University, Changsha, China*, ³*State Grid Shaoxing Power Supply Company, Shaoxing, China*

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AQ-13. Differentiable Graph Neural Network with Data-Driven Hysteresis Model for High-Frequency Transformer Design

Y. Zhu¹, Q. Huang², G. Lei¹, Y. Guo¹, J. Zhu²

¹School of Electrical and Data Engineering, University of Technology Sydney, Ultimo, New South Wales, Australia, ²School of Electrical and Computer Engineering, The University of Sydney, Camperdown, New South Wales, Australia

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AQ-14. Investigation of Standing Wave Phenomena in Electromagnetic RF Heating of Al Frames for Wafer-Level Thermo-Compression Bonding

S. Panhale¹, C. Hofmann², N. Sounak², M. Kroll¹, T. Clausmeyer¹

¹Professorship Forming Technology, Chemnitz University of Technology, Institute for Machine Tools and Production Processes (IWP), Chemnitz, Germany, ²Fraunhofer Institute for Electronic Nano Systems ENAS, Chemnitz, Germany

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AQ-15. Analytical Three-Dimensional Framework for Braking Force Calculation in PM Planar Actuators

A. Abdi

Electrical Engineering Faculty, University of Sciences and Technology Houari Boumedienne, Algiers, Algeria

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AQ-16. Importance of Rotor Segmentation in a Novel Hybrid-excited Synchronous Machine Configuration

S. Dey, B. G. Fedrnandes

Electrical Engineering, Indian Institute of Technology Bombay, Mumbai, Maharashtra, India

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SESSION AR: PERMANENT MAGNET MACHINES AND MAGNETICALLY GEARED MACHINES I (POSTER SESSION)

Chair(s): J. Yuan, Wuhan University, Wuhan, China

Tuesday, April 14, 2026

09:00 AM-12:00 PM

Exchange Hall

AR-01. Comprehensive 3D FEM Analysis and Experimental Validation of a Radial-Flux Permanent-Magnet Brake

A. Abdi

Electrical Engineering Faculty, University of Sciences and Technology Houari Boumedienne, Algiers, Algeria

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AR-02. Decoupled Current-Transformation Control Design for a Dual-Rotor PMSM Drive with Integrated Winding

Z. Zhang, M. Jiang, Z. Dong, Z. Zhang, S. Niu, K. Chau

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

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AR-03. A PWM Frequency Harmonic Suppression Scheme for Driving Permanent Magnet Synchronous Motors Using Three-Level Inverters with Zero-Vector Switching Spread Spectrum Modulation

H. Huang, Y. Xu, W. Zhang, J. Zou

School of Electrical Engineering and Automation, Harbin Institute of Technology, Harbin, China

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AR-04. Comparative Analysis and Torque Optimization of Three Types of Rotors in Permanent Magnet Synchronous Motors

J. Hu¹, J. Cao¹, F. Zhao²

¹School of Electrical and Electronic Engineering, Harbin Institute of Technology, Harbin, Heilongjiang, China, ²School of Robotics and Advanced Manufacture, Harbin Institute of Technology (Shenzhen), Shenzhen, Guangdong, China

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AR-05. Design of Dual-Rotor Dual-Flux-Switching Motor

Z. Dong, M. Jiang, Z. Zhang, Z. Zhang, S. Niu, K. Chau

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

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AR-06. Transfer Learning-Assisted Analytical Quasi-3D Surrogate Modeling for Electromagnetic Performance Prediction of AFPMS Considering Eccentricity

H. Kim¹, Y. Lee¹, D. Ko¹, Y. Lee¹, M. Park^{1,2}

¹*Department of Electrical and Communication Systems Engineering, Soonchunhyang University, Asan, Chungcheongnam-do, Korea (the Republic of)*, ²*Department of Electrical Engineering, Soonchunhyang University, Asan, Chungcheongnam-do, Korea (the Republic of)*

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AR-07. Suppression Strategy of Torque Ripple for Permanent Magnet Synchronous Motors Based on Artificial Intelligence Algorithms

Y. Hu¹, K. Yang¹, X. Wang², F. Xiong¹, Q. Liu², Y. Luo¹, C. Luo¹

¹*School of Electrical and Electronic Engineering, Huazhong University of Science and Technology, Wuhan, China*, ²*Ningbo Fotile Kitchen Ware Co., Ltd., Ningbo, China*

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AR-08. Improved Analytical Method for Electromagnetic Analysis of Axial Flux Permanent Magnet Motor with 3D Leakage Flux in Overhang Structures

J. Yang¹, T. Kim¹, K. Shin², C. Kim⁴, Y. Kim³, J. Choi¹

¹*Electrical Engineering, Chung Nam National University, Daejeon, Korea (the Republic of)*, ²*Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)*, ³*Biosystems Machinery Engineering, Chung Nam National University, Daejeon, Korea (the Republic of)*, ⁴*Electrical and Electronic Engineering, Chungnam State University, Cheongyang, Korea (the Republic of)*

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AR-09. Flux Linkage Decomposition-based Analysis and Harmonic Reduction Design of Induced Voltage in High-Speed Multilayer IPMSM

K. Kim², Y. Jung³, M. Park¹

¹*Electrical Engineering, Soonchunhyang University, Asan-si, Korea (the Republic of)*, ²*Hanyang University, Seoul, Korea (the Republic of)*, ³*Yeungnam University, Gyongsan si, Korea (the Republic of)*

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AR-10. Comparison of Energy Consumption of ML IPMSMs for EV Traction under Various Driving Cycles Considering DPMM Application

G. Park¹, M. Park², J. KIM¹, Y. Jung¹

¹*Department of Automotive Engineering, Yeungnam University, Gyeongsan-si, Korea (the Republic of)*, ²*Department of Electrical Engineering, Soonchunhyang University, Asan, Korea (the Republic of)*

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AR-11. A Study on the Effect of Pole–Slot Combination on Performance of High-Speed Aerospace SPMSM Using Fe–Co Electrical Steel

D. Ji, D. Kim, S. Oh, S. Song, H. Lee

Department of Electronics and Electrical Engineering, Dankook University, Yongin-si, Gyeonggi-do, Korea (the Republic of)

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AR-12. Effect of Compaction-Induced Magnetic Property Variations in SMC Stators on the Performance of Axial-Flux Permanent Magnet Machines

D. Um¹, L. Sjöberg²

¹Gyeongsang National University, Jinju, Korea (the Republic of), ²Alvier Mechatronics AB, Helsingborg, Sweden

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AR-13. Iron Loss Reduction by Secondary Current Heating Method and Magnetic Property Evaluation for Practical Motor Stator Cores

Y. Tsuchida, K. Irie, K. Iwanaga

Oita University, Oita, Japan

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AR-14. Effects of Laser Welding on Magnetic Properties of Electrical Discharge Machining-cut and Laser-cut Laminated Cores

Y. Tsuchida, T. Mine

Oita University, Oita, Japan

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AR-15. Design and Comparison of Dual-Rotor Synchronous Machines with Spoke-Type Stator PMs and Integrated Winding

Z. Zhang, M. Jiang, Z. Zhang, Z. Dong, S. Niu, K. Chau

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

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AR-16. A Simplified Evaluation of AC Copper Loss in a Permanent Magnet Synchronous Motor Based on Frequency Characteristics of Armature Winding Impedance

S. Hoshiyasu¹, T. Komine², Y. Takahashi¹, k. Fujiwara¹

¹Department of Electrical Engineering, Doshisha University, Kyotanabe, Kyoto, Japan, ²Engineering Department, Toyo Denki Seizo K.K., Ryuou, Shiga, Japan

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SESSION AS: MAGNETIZATION DYNAMICS AND MICROMAGNETICS I (POSTER SESSION)

Chair(s): R. Tomasello, Department of Electrical and Information Engineering, Politecnico di Bari, Bari, Italy

Tuesday, April 14, 2026

09:00 AM-12:00 PM

Exchange Hall

AS-01. Mechanical Stress Effect on the Coercivity of Magnetic Barkhausen Noise Energy Loops of Oriented Silicon Steel Sheets

C. Li, L. Li

North China Electric Power University, Beijing, Beijing, China

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AS-02. Extracting Material Parameters from Magnetic Domain Patterns with Deep Learning

J. Smith^{1, 2, 3}, F. Slanovc², D. Suess¹

¹Faculty of Physics, University of Vienna, Vienna, Vienna, Austria, ²Silicon Austria Labs, Villach, Carinthia, Austria, ³Vienna Doctoral School of Physics, University of Vienna, Vienna, Vienna, Austria

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AS-03. Quantifying Temperature Gradient-Driven Spin-Texture Dynamics Through Magnetic Force Microscopy

N. Martin, A. Chanda, R. Bjørk, F. Trier

Department of Energy Conversion and Storage, Technical University of Denmark, Kongens Lyngby, Denmark

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AS-04. Inverse design of nanomagnet shape for tailored angle-dependence of magnetic switching

H. T. Kaarbø, E. Folven

Electronic systems, Norwegian University of Science and Technology, Trondheim, Trøndelag, Norway

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AS-05. Overcoming quadratic complexity in time for fast-moving textures in micromagnetics: A moving window approach

M. K. Steinbauer^{1,2,3}, F. Bruckner¹, C. Abert^{1,2}

¹*Physics of Functional Materials, Faculty of Physics, University of Vienna, Vienna, Austria*, ²*Research Platform MMM Mathematics-Magnetism-Materials, University of Vienna, Vienna, Austria*, ³*Vienna Doctoral School in Physics, University of Vienna, Vienna, Austria*

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AS-06. Micromagnetic Investigation of Thickness-Dependent Skyrmion Evolution and Pinning in Fe₃GeTe₂

P. Cai¹, J. Garland^{2,3}, J. Fullerton³, R. Basnet⁴, S. Chhetri⁴, J. Hu⁴, E. Santos^{1,6}, Y. Li³, C. Phatak^{3,5}, A. Petford-Long^{3,5}

¹*School of Physics and Astronomy, University of Edinburgh, Edinburgh, United Kingdom*, ²*Applied Physics Program, Northwestern University, Evanston, Illinois, United States*, ³*Materials Science Division, Argonne National Laboratory, Lemont, Illinois, United States*, ⁴*Department of Physics, University of Arkansas, Fayetteville, Arizona, United States*, ⁵*Materials Science and Engineering Department, Northwestern University, Evanston, Illinois, United States*, ⁶*Donostia International Physics Center, Donostia-San Sebastián, Spain*

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AS-07. Current-Induced Magnetic Domain Ordering

J. C. Osborne¹, G. Burnell¹, J. E. Cunningham², T. A. Moore¹

¹*Condensed Matter Physics, University of Leeds, Leeds, West Yorkshire, United Kingdom*, ²*School of Electronic and Electrical Engineering, University of Leeds, Leeds, West Yorkshire, United Kingdom*

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AS-08. Evaluation of Barkhausen Noise Signal for Different Grain Sizes of Non-Oriented Iron-Silicon Material

D. Gartner Aurich¹, M. Bernard², U. Krupp², N. Leuning¹

¹*Institute of Electrical Machines - RWTH Aachen University, Aachen, Germany*, ²*Steel Institute - RWTH Aachen University, Aachen, Germany*

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AS-09. SOT-driven Pinned and Free Domain Wall Dynamics in BiYIG films

E. Angeli¹, I. N. Bhatti², A. Thiaville¹, A. Anane¹, V. Jeudy¹

¹*Université Paris-Sud, Gentilly, France*, ²*Thales Communications & Security, Palaiseau, France*

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AS-10. Temperature Dependent Spin Wave Stiffness of Permalloy Thin Films

D. Goli, J. Shuai, C. Marrows, J. Barker

School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom

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AS-11. The Accuracy of the Average Demagnetization Tensor for Use in Micromagnetics Calculations

E. Rostal Sørensen, A. R. Insinga, R. Bjørk

Energy, Technical University of Denmark, Kongens Lyngby, Denmark

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AS-13. A Computational Method to Determine the Volume Distribution of Demagnetization Factors within Both Solid Samples and Discrete Assemblies of Magnetic Elements for Any Given Shape

S. M. McCann, T. Mercer

University of Lancashire, Preston, Lancashire, United Kingdom

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AS-14. Head-to-head Textures Stabilization through Local Anisotropy Modifications in Large Aspect Ratio Stripes

R. Fernandez-Jimenez¹, M. Sánchez-Agudo², P. Ochoa², A. Gómez³, M. Magaz³, J. Soler-Morala¹, J. Rubio-Zuazo^{1,4}, E. Palomares¹, J. M. González¹

¹Nanoscience and Nanotechnology, Institute of Materials Science of Madrid (ICMM-CSIC), Madrid, Madrid, Spain, ²CEMDATIC-ETS y Sistemas de Telecomunicacion, Universidad Politecnica de Madrid (UPM), Madrid, Madrid, Spain, ³Centro de Astrobiología CAB, CSIC-INTA, Madrid, Madrid, Spain, ⁴Spanish CRG Beamline BM25-SpLine, European Synchrotron Radiation Facility (ESRF), Grenoble, Grenoble, France

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AS-15. Excitation of Vortex Core Gyration in Nanopillars through Driven Floquet Magnons

G. Philippe, J. Kim

C2N, CNRS / Université Paris-Saclay, Palaiseau, France

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AS-16. Selective control of bubble-domain structures at zero magnetic field in [Ru/Co/Pt] multilayers

Y. Hisada¹, P. Karipoth², J. C. Osborne², S. Komori¹, T. A. Moore², T. Taniyama¹

¹Department of Physics, Nagoya University, Nagoya, Japan, ²School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom

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SESSION AT: MAGNETIC THIN FILMS AND MULTILAYERS (POSTER SESSION)

Chair(s): A. Talapatra, *GlobalFoundries, Dresden, Germany*

Tuesday, April 14, 2026

09:00 AM-12:00 PM

Exchange Hall

AT-01. Rotation of uniaxial magnetic anisotropy induced by interface roughness in polycrystalline Co/Ru/Co multilayers

S. Asai¹, Y. Hisada¹, S. Komori¹, Y. K. Takahashi², T. Taniyama¹

¹Department of Physics, Nagoya University, Nagoya, Japan, ²Research Center for Magnetic and Spintronic Materials, National Institute for Materials Science (NIMS), Ibaraki, Japan

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AT-02. Effect of post-sputtering thermal annealing on the microstructure of multilayer AgO/Ag-TaO/TaO thin films

R. Binti Alias^{1,2}, W. W Mohamad^{1,3}

¹Faculty of Innovative Design and Technology, Universiti Sultan Zainal Abidin, Campus Gong Badak, 21300 Kuala Nerus, Terengganu Darul Iman, Malaysia, Universiti Sultan Zainal Abidin, Kuala Nerus, Terengganu, Malaysia, ²Biomaterials and Nanomaterials Research Group, Faculty of Innovative Design and Technology, UNISZA, Kuala Nerus, Terengganu, Malaysia, ³Design Optimization and Manufacturing Research Group, Faculty of Innovative Design and Technology, UNISZA, Kuala Nerus, Terengganu, Malaysia

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AT-03. Surface Morphology of AgAgTaO Thin Films at Various Annealing Temperatures

W. W Mohamad^{1,2}, R. Binti Alias^{1,3}

¹Manufacturing Technology, Universiti Sultan Zainal Abidin, Kuala Terengganu, Terengganu, Malaysia, ²Design Optimization and Manufacturing Research Group, Universiti Sultan Zainal Abidin, Kuala Terengganu, Terengganu, Malaysia, ³Biomaterials and Nanomaterials Research Group, Universiti Sultan Zainal Abidin, Kuala Terengganu, Terengganu, Malaysia

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AT-04. Tuning the Magnetic Properties and Sputtering Performance of FeCoB Sputtering Targets Through Composition and Process Control

Q. Zeng, D. VanHeerden, D. Lian, S. Kennedy

T&I, Materion Corp., Brewster, New York, United States

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AT-05. Probing Surface Magnetization in the Altermagnetic Candidate MnF₂ (110)

V. O. Curbelo¹, P. Bawankule¹, C. de Oliveira¹, S. Terakawa², C. Luo³, V. Ukleev³, F. Radu³, A. Bedoya Pinto¹

¹*Institute of Molecular Sciences (ICMOL), University of Valencia, Burjassot, Valencia, Spain*, ²*Department of Applied Physics, Osaka University, Suita, Osaka, Japan*, ³*Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany*

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AT-06. Local Structural anisotropy as the origin of PMA in Ta/CoFeB/MgO heterostructure

M. Singh¹, S. K. Vayalil^{2,1}, A. Hloskovsky², C. Schlueter², C. Meneghini³, I. Carlomagno⁴, A. Gupta¹

¹*Applied Science Cluster, UPES, Dehradun, 248007, Uttarakhand, India*, ²*Deutsches Elektronen-Synchrotron (DESY), Notkestraße 85, 22607 Hamburg, Germany*, ³*Department of Science, Roma Tre University, Via Della Vasca Navale 84, 00146 Rome, Italy*,

⁴*Elettra Sincrotrone Trieste, Basovizza, Trieste 34149, Italy*

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AT-08. A Study on Magnetic Textures in Ultrathin Co/Ni Multilayers

N. P. Vizarim¹, C. C. Soares^{1,2}, J. Brandao², E. Béron¹

¹*DFMC, Universidade Estadual de Campinas, Campinas, SP, Brazil*, ²*Laboratorio de Luz Sincrotron, Centro Nacional de Pesquisa em Energia e Materiais, Campinas, SP, Brazil*

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AT-10. Developing novel magnetic L10 alloys for spintronics

N. Naushad, T. Thomson, P. Nutter

Computer Science, University of Manchester, Manchester, United Kingdom

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AT-11. Variation in Magnetostriction of Fe-Co Depending on Film Stress

S. Umetsu¹, Y. Takahashi¹, M. Ohtake², N. Inaba¹

¹*Graduate School of Science and Engineering, Yamagata University, Yonezawa, Yamagata, Japan*, ²*Faculty of Engineering, Yokohama National University, Yokohama, Japan*

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AT-12. Magnetic Frustration and Anomalous Nernst Effect at Metallo-Molecular Interfaces

Z. Parkin

Physics, University of Leeds, Leeds, United Kingdom

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AT-14. Magnetic easy plane in Co/Pt trilayer

C. Aulagnet¹, E. Fullerton², S. Mangin^{1,3}

¹*Institut Jean Lamour, Université de Lorraine, Nancy, France*, ²*Center for Memory and Recording Research, University of California, San Diego, San Diego, California, United States*, ³*Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan*

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AT-15. Inter-Layer Exchange Coupling Characterization for 3D Nanomagnetic Architectures

B. A. Mimica Figari¹, A. Arabzadeh^{2,3}, G. Varvaro², S. P. Oramus⁴, F. Ferri⁵, R. Fornari⁶, R. Tomasello¹, M. Carpentieri¹, A. O. Adeyeye⁴, G. Gubbiotti⁷, [V. Puliafito](#)¹

¹Electrical and Information Engineering, Politecnico di Bari, Bari, Italy, ²nM2-Lab, CNR – Istituto di Struttura della Materia (ISM), Roma, Roma, Italy, ³Dipartimento di Scienze, Università Roma Tre, Roma, Roma, Italy, ⁴Department of Physics, Durham University, Durham, Durham, United Kingdom, ⁵University of Salento, Lecce, Lecce, Italy, ⁶Dipartimento di Fisica e Geologia, University of Perugia, Perugia, Perugia, Italy, ⁷CNR - Istituto Officina dei Materiali (IOM), Perugia, Perugia, Italy

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AT-16. Crystallographic orientation dependence of the anisotropic magnetoresistance in epitaxial Fe_{100-x}Co_x thin films

L. Saba², A. Paz³, W. Painado Lozano³, A. Gutarra³, L. León Hilario³, D. Perez Morelo², D. Gonzalez-Chavez⁴, J. Gomez¹, A. Butera^{1,2}, M. Granada^{1,2}, [L. Avilés Félix](#)^{1,2}

¹Magnetism and Magnetic Materials, Centro Atómico Bariloche, San Carlos de Bariloche, Argentina, ²Instituto Balseiro, Bariloche, Argentina, ³Universidad Nacional de Ingeniería, Lima, Peru, ⁴Universidad Católica San Pablo, Lima, Peru

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SESSION AU: SPIN-ORBIT AND ORBITAL TORQUES I (POSTER SESSION)

Chair(s): Z. Zhu, ShanghaiTech University, Shanghai, China

Tuesday, April 14, 2026

09:00 AM-12:00 PM

Exchange Hall

AU-01. Charge-to-spin interconversion in Py/W bilayers

N. Abellán Lorenzo^{1,2}, C. Lombardo^{1,2}, M. Pacheco⁷, Y. Ma⁵, Y. Yang⁴, M. Aguirre⁶, M. Vasquez Mansilla^{1,3}, J. Gomez^{1,3}, A. Butera^{1,2,3}, [L. Avilés Félix](#)^{1,2,3}

¹Magnetism and Magnetic Materials, Centro Atómico Bariloche, San Carlos de Bariloche, Argentina, ²Universidad Nacional de Cuyo, Instituto Balseiro, Bariloche, Argentina, ³CNEA - CONICET, Instituto de Nanociencia y Nanotecnología, Bariloche, Argentina, ⁴ShanghaiTech University, Shanghai, China, ⁵National University of Singapore, Singapore, Singapore, ⁶Universidad de Zaragoza, Zaragoza, Spain, ⁷Universidad Nacional de Ingeniería, Lima, Peru

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AU-02. Crystallinity Control of spin torque efficiency in CuNi alloys

[W. Zhu](#), J. Gu, X. Qiu, S. Zhou

School of Physics Science and Engineering, Tongji University, Shanghai, China

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AU-05. Ultra-Low Switching Current in Y-Type SOT Devices Enabled by the Unconventional Role of Hafnium

[Y. Li](#), C. Wei

National Tsing Hua University, Hsinchu, Taiwan

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AU-06. Angle resolved second harmonic Hall measurements for spin orbit torques in Out of Plane configuration

A. Chauhan, [A. Erram](#), A. A. Tulapurkar

Electrical Engineering, Indian Institute of Technology Bombay, Mumbai, Maharashtra, India

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AU-07. Self and externally induced spin-orbit torque in Fe₃GaTe₂

T. Prok^{1,2,3}, Z. Kovacs-Krausz^{1,2}, M. Varga¹, S. Csonka^{1,4,5}, S. P. Dash⁶, P. Makk^{1,2}, [E. Tóvári](#)^{1,2}

¹Dept. of Physics, Budapest University of Technology and Economics, Budapest, Hungary, ²MTA-BME Correlated van der Waals Structures Momentum Research Group, Budapest, Hungary, ³Zernike Institute for Advanced Materials, University of Groningen, Groningen, Netherlands, ⁴MTA-BME Superconducting Nanoelectronics Momentum Research Group, Budapest, Hungary, ⁵Institute of Technical Physics and Materials Science, HUN-REN Centre for Energy Research, Budapest, Hungary, ⁶Department of Microtechnology and Nanoscience, Chalmers University of Technology, Goteborg, Sweden

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AU-08. Magnetization switching in α -W-based magnetic tunnel junction induced by a combination of spin-orbit and field torques

[K. Grochot](#)¹, M. Cierpial¹, J. Mojsiejuk¹, J. Pawlak¹, J. Kanak¹, J. Wrona², T. Nan³, W. Skowronski¹

¹AGH University of Krakow, Krakow, Poland, ²Singulus Technologies AG, Kahl am Main, Germany, ³School of Integrated Circuits Tsinghua University, Beijing, China

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AU-12. Demonstration of field-free switching via Orbital Hall effect in NiFe/Cr bilayer

[A. Kumar](#), C. Kalouni, A. R. K. K. ., D. Roy

Physics, Indian Institute of Technology Ropar, Rupnagar, Punjab, India

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AU-13. First-principles investigations on spin-orbit torque in ferromagnetic bilayers and bulk collinear antiferromagnets

[Y. Song](#), J. Zhang

Physics, Hua Zhong University of Science and Technology, Wuhan, China

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AU-14. Sign Reversal and Unconventional Spin–Orbit Torques Enabled by Pt/Ti Multilayer Interfaces

[S. Riyaz](#), R. Mishra

Centre for Applied Research in Electronics, Indian Institute of Technology Delhi, New Delhi, Delhi, India

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AU-16. Enhancing spin orbit interaction in Cu based devices for spintronics

[M. M. Martínez Cameros](#), G. Vashisht, B. J. Hickey, G. Burnell

Condensed Matter Physics Department, University of Leeds, Leeds, Yorkshire, United Kingdom

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OVERVIEW WORKSHOP

Tuesday, April 14, 2026

12:15 PM-01:45 PM

Exchange 9

SESSION BA: NEXT-GENERATION SPINTRONICS BASED ON TWO-DIMENSIONAL MATERIALSChair(s): I. Vera Marun, *University of Manchester, Manchester, United Kingdom*

Tuesday, April 14, 2026

02:00 PM-05:30 PM

Exchange Auditorium

02:00 PM-02:30 PM**BA-01. Magnetic proximity effects in 2D heterostructures**J. Fabian^{1,2}¹*Institute of Theoretical Physics, Regensburg, Germany*, ²*Halle-Berlin-Regensburg Cluster of Excellence CCE, Regensburg, Germany*[View Digest Text](#)**02:30 PM-03:00 PM****BA-02. Valley-controlled many-body exciton interactions in monolayer WSe₂ phototransistors**M. Guimaraes*Zernike Institute for Advanced Materials, University of Groningen, Groningen, Netherlands*[View Digest Text](#)**03:00 PM-03:30 PM****BA-03. Charge and Spin Transport in Two-dimensional MnBi₂Te₄**A. Avsar*National University of Singapore, Singapore, Singapore*[View Digest Text](#)

03:30 PM-04:00 PM

Break

04:00 PM-04:30 PM**BA-04. Engineering topological and transport phenomena in graphene-based heterostructures via twisting, gating and strain**A. Dyrdał*Faculty of Physics and Astronomy, Adam Mickiewicz University, Poznan, Greater Poland, Poland*[View Digest Text](#)**04:30 PM-05:00 PM****BA-05. Engineering Energy-Efficient Spin-Orbit Torques in Van der Waals Heterostructures**S. P. Dash*Chalmers University of Technology, Gothenburg, Vastra Gotaland, Sweden*[View Digest Text](#)**05:00 PM-05:30 PM****BA-06. Towards Tuning Magnetism and correlation with pressure**S. Bhattacharyya*Leiden Institute of Physics, Leiden University, Leiden, Netherlands*[View Digest Text](#)

**SESSION BB: FROM HEUSLERS TO HIGH-ENTROPY ALLOYS: DISORDER, TOPOLOGY, AND TUNABLE
MAGNETOTRANSPORT**Chair(s): M. Vázquez, *Instituto de Ciencia de Materiales de Madrid, CSIC, Spain, Madrid, Spain*

Tuesday, April 14, 2026

02:00 PM-05:30 PM

Charter 1

02:00 PM-02:30 PM**BB-01. Topological Heusler Compounds: Reciprocal and Real-Space Topologies**C. Felser*Topological Quantum Chemistry, Max Planck Institute Chemical Physics of Solids, Nieder-Olm, Germany*[View Digest Text](#)**02:30 PM-03:00 PM****BB-02. From all-d Heusler to high entropy alloys for magnetic materials for energy conversion**O. Gutfleisch^{1,2}¹*Material Science, TU Darmstadt, Darmstadt, Germany*, ²*Max Planck Institute for Sustainable Materials, Düsseldorf, Germany*[View Digest Text](#)**03:00 PM-03:30 PM****BB-03. Heusler Alloy Films for Spintronic Devices by Controlling Their Crystallisation Process**A. Hirohata^{1,2}, E. Pandey², S. Yamashita², G. Fecher², H. Koizumi¹, E. Lesne², C. Felser²¹*Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan*, ²*Max Planck Institute for Chemical Physics of Solids, Dresden, Germany*[View Digest Text](#)

03:30 PM-04:00 PM

Break

04:00 PM-04:30 PM**BB-04. Anomalous Nernst and Hall effects in quaternary Heusler and magnetic High Entropy Alloys**H. Srikanth*Physics, University of South Florida, Tampa, Florida, United States*[View Digest Text](#)**04:30 PM-05:00 PM****BB-05. From Disorder to Design: Fast Ab-Initio and Machine-Learning in High-Entropy Intermetallic Magnets**G. Yin, T. Corbett, W. Beeson, K. Liu*Department of Physics, Georgetown University, Washington, District of Columbia, United States*[View Digest Text](#)

SESSION BC: VOLTAGE-CONTROLLED MAGNETIC ANISOTROPY AND MAGNETO-IONICS

Co-Chair(s): R. G. Hunt, *Material Physics, Uppsala University, Uppsala, Sweden* and L. Ishibe Veiga, *Diamond Light Source Ltd, Didcot, United Kingdom*
 Tuesday, April 14, 2026
 02:00 PM-05:30 PM
 Charter 2

02:00 PM-02:30 PM**BC-01. Towards Mechanistic Understanding of Emerging Oxygen- and Hydrogen-based Magneto-ionic Materials**

K. Leistner, M. Goessler

Institute of Chemistry, Chemnitz University of Technology, Chemnitz, Germany[View Digest Text](#)**02:30 PM-02:45 PM****BC-02. Modification of ultrafast magnetization dynamics in Tb₂₉Co₇₁ thin films with hydrogen ions**R. G. Hunt¹, V. Shokeen², M. P. Grassi¹, R. Chulkov², H. Dürr², G. Andersson¹¹*Material Physics, Uppsala University, Uppsala, Sweden*, ²*Uppsala University, Uppsala, Sweden*[View Digest Text](#)**02:45 PM-03:00 PM****BC-03. Hydrogen-magneto-ionics in Pt-capped [Co/Pd]₃ multilayers**F. Engelhardt^{1,2}, R. Ehrler^{1,2}, M. Goessler¹, O. Hellwig^{1,2,3}, K. Leistner^{1,2,4}¹*Faculty of Natural Sciences, TU Chemnitz, Chemnitz, Saxony, Germany*, ²*Center for Materials Architectures and Integration of Nanomembranes (MAIN), TU Chemnitz, Chemnitz, Saxony, Germany*, ³*Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Saxony, Germany*, ⁴*Leibniz-Institut für Festkörper- und Werkstoffforschung Dresden, Dresden, Saxony, Germany*[View Digest Text](#)**03:00 PM-03:15 PM****BC-04. Voltage-Driven Control of Exchange Bias Field in Pt/Co/CoO Thin Films via Magneto-ionic Effects**A. Klimeczek¹, M. De-Santis¹, F. Gay¹, L. Ranno¹, J. Vogel¹, A. Masseboeuf², A. D. Lamirand³, S. Pizzini¹¹*Institut Néel CNRS, Grenoble, Auvergne-Rhône-Alpes, France*, ²*CEA-SPINTEC, Grenoble, France*, ³*Laboratoire de Physique et Chimie des Nano-objets - INSA, Lyon, France*[View Digest Text](#)**03:15 PM-03:30 PM****BC-05. Large Voltage-Controlled Magnetic Anisotropy (VCMA) Effect at metalloporphyrin grafted Graphene/NiFe interface**A. Shukla^{1,2}, A. Erram¹, H. A. Mendonca¹, D. Kumar³, A. Chauhan¹, A. A. Tulapurkar¹¹*Electrical Engineering, Indian Institute of Technology Bombay, Mumbai, India*, ²*Seagate Technology, Londonderry, Northern Ireland, United Kingdom*, ³*Tohoku University, WPI Advanced Institute for Materials Research, Katahira, Japan*[View Digest Text](#)**03:30 PM-04:00 PM**

Break

04:00 PM-04:15 PM**BC-06. Electric and Thermal Control of Magnetic Anisotropy in Ni₉₀Fe₁₀/BaTiO₃(001) Magnetoelectric Heterostructures**A. Begué^{1,3}, W. Khaliq⁴, N. Cotón¹, M. Angel⁴, M. Foerster⁴, R. Ranchal^{1,2}¹*Física de Materiales, Universidad Complutense de Madrid, Madrid, Madrid, Spain*, ²*Instituto de Magnetismo Aplicado, Las Rozas, Madrid, Spain*, ³*Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France*, ⁴*ALBA Synchrotron Light Facility, Cerdanyola del Valles, Spain*[View Digest Text](#)

04:15 PM-04:30 PM**BC-07. Magneto-ionic Control of a Propagating Spin Reorientation Transition**G. Bernard¹, X. Lafosse¹, C. Tataru¹, M. Syskaki², A. Durnez¹, F. Mahut¹, D. Ravelosona¹, J. Langer², L. Herrera Diez¹¹Centre for Nanoscience and Nanotechnology, Université Paris-Saclay, Palaiseau, France, ²Singulus Technologies AG, Kahl am Main, Germany[View Digest Text](#)**04:30 PM-04:45 PM****BC-08. Engineering of epitaxial Mn4N films for spintronics applications**T. Apetrei, S. Damerio, C. Avci

Institut de Ciència de Materials de Barcelona, Barcelona, Barcelona, Spain

[View Digest Text](#)**04:45 PM-05:00 PM****BC-09. Reversible Voltage-Tunable Hysteresis in Fe-Ni Films via Magneto-Ionic Effects**A. Ullrich¹, F. L. Hambeck¹, D. Wolf², K. Leistner^{1,2}¹Institute of Chemistry, University of Technology Chemnitz, Chemnitz, Germany, ²Leibniz Institute for Solid State and Materials Research (IFW) Dresden, Dresden, Germany[View Digest Text](#)**05:00 PM-05:15 PM****BC-10. All-solid-state magneto-ionics using a proton-conducting polymer electrolyte**M. Goessler, F. Engelhardt, K. Leistner

Institute of Chemistry, Chemnitz University of Technology, Chemnitz, Saxony, Germany

[View Digest Text](#)**SESSION BD: ANTIFERROMAGNETIC DYNAMICS**

Co-Chair(s): B. A. Assaf, Physics, University of Notre Dame, Notre Dame, Indiana, United States and Y. Yamane, Tohoku University, Sendai, Japan

Tuesday, April 14, 2026

02:00 PM-05:30 PM

Charter 3

02:00 PM-02:30 PM**BD-01. Electric Field-induced Antiferromagnetic Resonance in MnPS₃**E. Del Barco¹, J. Hanson-Flores¹, A. Regmi¹, J. Keum², J. Park², R. Cheng³, S. Singh⁴, D. A. Arena⁵¹University of Central Florida, Orlando, Florida, United States, ²Seoul National University, Seoul, Korea (the Republic of),³University of California-Riverside, Riverside, California, United States, ⁴Carnegie Mellon University, Pittsburgh, Pennsylvania, United States, ⁵University of South Florida, Tampa, Florida, United States[View Digest Text](#)**02:30 PM-02:45 PM****BD-02. Exotic magnetic phenomena near compensation in Pt/Al-substituted terbium iron garnet heterostructures**T. Shiino, M. Fettizio, W. Janus, S. Estandía, C. Avci

Institut de Ciència de Materials de Barcelona (ICMAB-CSIC), Bellaterra, Barcelona, Spain

[View Digest Text](#)**02:45 PM-03:00 PM****BD-03. Orbital-torque driven excitation of terahertz perpendicular standing spin wave modes**H. Devda¹, P. M. Oppeneer², U. Nowak¹¹Fachbereich Physik, Universität Konstanz, Konstanz, Germany, ²Department of Physics and Astronomy, Uppsala University, Uppsala, Sweden[View Digest Text](#)

03:00 PM-03:15 PM

BD-04. Handed Antiferromagnetic Magnon Propagation in α -Fe₂O₃

C. Xu*, H. Park, C. Zhang, H. Yang

Electrical and Computer Engineering, National University of Singapore, Singapore, Singapore

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03:15 PM-03:30 PM

BD-05. Critical Co Thickness for Magnetic-Field-Induced Reorientation of the NiO Néel Vector

D. Backes¹, E. Heppell^{1,2,3}, S. Langridge³, G. van der Laan¹, T. Hesjedal^{1,2}

¹Diamond Light Source, Didcot, United Kingdom, ²University of Oxford, Oxford, United Kingdom, ³ISIS Neutron and Muon Source, STFC Rutherford Appleton Laboratory, Didcot, United Kingdom

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03:30 PM-04:00 PM

Break

04:00 PM-04:30 PM

BD-06. Voltage-Controlled Magnon Transistors

X. Han

Institute of Physics, Chinese Academy of Sciences, Beijing, China

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04:30 PM-04:45 PM

BD-08. Atomistic spin dynamics modelling of antiferromagnetic skyrmions and bimerons in spintronic devices

C. Thevenard¹, M. Leiviska¹, R. F. Evans², D. Gusakova¹, V. Baltz¹

¹Univ. Grenoble Alpes, CNRS, CEA, Grenoble INP, IRIG-SPINTEC, Grenoble, France, ²School of Physics, Engineering and Technology, University of York, York, United Kingdom

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04:45 PM-05:00 PM

BD-09. Ferroelectric control of THz emission from active spintronic interfaces Via Inverse Rashba-Edelstein effects

F. Miljevic¹, S. Massabeau¹, O. Paull¹, A. Pezo¹, R. T. Victor¹, M. Jain^{1,2}, R. Lebrun¹, F. Leroy³, M. Mičica⁴, S. Dhillon⁴, M. Bibes¹, M. Jamet⁵, H. Jaffrès¹, J. George¹

¹Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, Essonne, France, ²Centre for Nanoscience and Nanotechnology, CNRS, Université Paris-Saclay, Palaiseau, Essonne, France, ³Aix Marseille Univ, CNRS, CINAM, AMUTECH, Marseille, France, ⁴LPENS, ENS, Université PSL, CNRS, Sorbonne Université, Université Paris-cité, Paris, Paris, France, ⁵Univ. Grenoble Alpes, CEA, CNRS, Grenoble -INP, IRIG SPINTEC, Grenoble, France

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05:00 PM-05:15 PM

BD-10. Emergent impedance due to antiferromagnetic domain wall dynamics

Y. Yamane¹, J. J. Nakane², Y. Araki³, J. Ieda⁵

¹Tohoku University, Sendai, Japan, ²Nagoya University, Nagoya, Japan, ³Japan Atomic Energy Agency, Tokai, Japan

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05:15 PM-05:30 PM

BD-11. Aluminum-Substituted Yttrium Iron Garnet Films with Perpendicular Anisotropy Grown on Silicon by Sputtering

M. Fettizio, S. Fedel, S. Estandía, J. A. De Sousa, C. Avci

Institute of Materials Science of Barcelona (ICMAB-CSIC), Barcelona, Spain

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SESSION BE: NDFEB BASED HARD MAGNETIC MATERIALSChair(s): A. Aubert, *TU Darmstadt, Darmstadt, Germany*

Tuesday, April 14, 2026

02:00 PM-05:30 PM

Charter 4

02:00 PM-02:30 PM**BE-01. Recycling Rare Earth Permanent Magnets: Challenges, Strategies, and Processing Innovations**I. Nlebedim¹, H. Khazdozian^{1,2}, H. Parmar¹, B. Cui¹, D. Prodius¹, X. Liu¹¹*Division of Critical Materials, Ames National Laboratory, Ames, Iowa, United States*, ²*Currently at Office of Critical Minerals and Energy Innovation, U.S. Department of Energy, Washington DC, District of Columbia, United States*[View Digest Text](#)**02:30 PM-02:45 PM****BE-02. Magnetic Properties of Recycled Nd-Fe-B Powders Obtained by Gas Atomization**D. Monzón Martín^{1,2}, G. Sarriegui^{1,2}, N. Burgos^{1,2}, J. Martín^{1,2}, M. Salaheldeen³, V. Zhukova³, A. Zhukov³¹*CEIT-BRTA, San Sebastián, Spain*, ²*University of Navarra, San Sebastián, Spain*, ³*University of the Basque Country, San Sebastián, Spain*[View Digest Text](#)**02:45 PM-03:00 PM****BE-03. From Strategic Grain Boundary Diffusion to Segmentation: a Novel Production Route for Resource-Efficient Nd-Fe-B Magnets**I. Dirba¹, A. Durgun¹, K. Opelt², C. Lin^{2,1}, J. Gassmann², O. Gutfleisch¹¹*Institute of Materials Science, Technical University of Darmstadt, Darmstadt, Hessen, Germany*, ²*Magnetic Materials, Fraunhofer IWKS, Hanau, Germany*[View Digest Text](#)**03:00 PM-03:15 PM****BE-04. In-situ Grain-Boundary Diffusion Approach for Recycled Nd-Fe-B Powders**T. Tomšič¹, F. Burkhardt¹, Z. Samardžija¹, K. Zuzek^{1,2}¹*Department for Nanostructured Materials, Institut Jozef Stefan, Ljubljana, Slovenia*, ²*Jozef Stefan International Postgraduate School, Ljubljana, Slovenia*[View Digest Text](#)**03:15 PM-03:30 PM****BE-05. Ce Substitution via the 2-Powder Method for Nd-Fe-B Magnets: A Sustainable Approach to Reduce Rare Earth Element Dependency While Preserving Performance**C. Lin^{1,2}, J. Rossa¹, K. Opelt¹, A. Durgun², I. Dirba², O. Gutfleisch²¹*Magnetic Materials, Fraunhofer IWKS, Hanau, Germany*, ²*Materials Science, TU Darmstadt, Darmstadt, Germany*[View Digest Text](#)**03:30 PM-04:00 PM**

Break

04:00 PM-04:30 PM**BE-06. Boosting Coercivity and Magnetic Performance in PBF-LB Nd-Fe-B Magnets through Ag-Nanoparticle Feedstock Engineering Supported by In-Line OES Quality Monitoring**P. Gabriel, S. Barcikowski, A. Ziefuss*Technical Chemistry I and Center for Nanointegration Duisburg-Essen (CENIDE), University of Duisburg-Essen, Essen, Germany*[View Digest Text](#)

04:30 PM-04:45 PM**BE-08. Grain Boundary Modification of Recycled Single-Phase Nd₂Fe₁₄B Powder Using Rare-Earth-Cu Alloys**M. Rebernik Gracej^{1,2}, T. Tomše¹, Z. Samardžija¹, C. Burkhardt³, L. Schieren³, K. Zuzek Rozman^{1,2}¹Department for Nanostructured Materials, Jozef Stefan Institute, Ljubljana, Slovenia, ²Jozef Stefan International Postgraduate School, Ljubljana, Slovenia, ³Institute for Precious and Technology Metals, Pforzheim University, Pforzheim, Germany[View Digest Text](#)**04:45 PM-05:00 PM****BE-10. The 2-powder method: Enhancing the size limit of the grain boundary diffusion process in NdFeB magnet production**K. Opelt¹, M. Schönfeldt¹, C. Lin^{1,2}, I. Dirba², A. Durgun², N. Chimed³, T. Schwarz³, M. Jovičević-Klug³, D. Raabe³, O. Gutfleisch²¹Magnetic Materials, Fraunhofer IWKS, Hanau, Hessen, Germany, ²Department of Materials and Geosciences, TU Darmstadt, Darmstadt, Germany, ³Microstructure Physics and Alloy Design, Max Planck Institute for Sustainable Materials, Düsseldorf, Germany[View Digest Text](#)**SESSION BF: 3D MAGNETISM AND TOPOLOGICALLY NON-TRIVIAL SPIN TEXTURES**Chair(s): J. Kim, *Université Paris-Saclay, Palaiseau, France*

Tuesday, April 14, 2026

02:00 PM-05:30 PM

Exchange 9

02:00 PM-02:30 PM**BF-01. Engineering Topological Antiferromagnetic Solitons for Spintronics**H. K. Jani*Physics, University of Oxford, Oxford, United Kingdom*[View Digest Text](#)**02:30 PM-02:45 PM****BF-02. Current-Induced Nucleation and Transport of Magnetic Hopfions in Nanotubes**L. Gallard, R. Hertel*IPCMS - CNRS - Université Strasbourg, Strasbourg, France*[View Digest Text](#)**02:45 PM-03:00 PM****BF-03. Fractional hopfions in composite magnets**S. Ashok¹, N. T. Bechler¹, F. S. Yasin², J. Masell^{1,3}¹Institute of Theoretical Solid State Physics, Karlsruhe Institute of Technology, Karlsruhe, Germany, ²Center for Nanophase Materials Sciences, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States, ³Center for Emergent Matter Science, RIKEN, Wako, Japan[View Digest Text](#)

03:00 PM-03:15 PM

BF-04. Topological magnetic phase transitions via a fluctuation-free pathway

R. Battistelli^{1,5}, L. Körber^{1,2}, K. Litzius⁵, M. Grelier³, K. Puzhekadavil Joy^{1,5}, M. Schneider⁴, S. Wittrock¹, D. Metternich^{1,4}, T. Karaman⁵, L. Kern⁴, C. Klose⁴, S. Finizio⁶, J. Fuchs⁴, C. Günther⁷, T. A. Butcher^{4,6}, K. Prokes¹, R. Boltje^{1,5}, M. Patra⁵, S. Wintz¹, M. Weigand¹, S. Petz¹, H. Popescu⁸, J. Raabe⁶, N. Jaouen⁸, S. Eisebitt^{4,9}, V. Cros³, B. Pfau^{4,9}, J. Mentink², N. Reyren³, F. Büttner^{1,5}

¹Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Berlin, Berlin, Germany, ²Institute for Molecules and Materials, Radboud University, Nijmegen, Netherlands, ³Laboratoire Albert Fert CNRS, Thales, Université Paris-Saclay, Palaiseau, France, ⁴Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy, Berlin, Berlin, Germany, ⁵Experimental Physics V, University of Augsburg, Augsburg, Germany, ⁶Swiss Light Source, Paul Scherrer Institute, Villigen, Switzerland, ⁷Zentraleinrichtung Elektronenmikroskopie (ZELMI), Technische Universität Berlin, Berlin, Germany, ⁸Synchrotron SOLEIL, Saint-Aubin, France, ⁹Institute of Physics and Astronomy, Technische Universität Berlin, Berlin, Germany

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BF-05. Magnetic Ordering in Chiral Nanotubes with Competing Interactions

I. Muñoz Aldalur^{1,2}, O. Iglesias^{1,2}

¹Dpt. Condensed Matter Physics, University of Barcelona, Barcelona, Spain, ²Institute of Nanoscience and Nanotechnology of the UB, IN2UB, Barcelona, Spain

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Break

04:00 PM-04:15 PM

BF-06. Curvature-Induced Effects on Current-Driven Skyrmion Motion in a Bent Nanotube

J. I. Costilla Pinedo^{1*}, V. Kravchuk^{2,3}, M. Castro⁴, D. Altbir⁵, V. Carvalho¹

¹Physics Department, Universidade Federal de Viçosa, Viçosa, Minas Gerais, Brazil, ²Leibniz-Institut, Dresden, Germany, ³Bogolyubov Institute for Theoretical Physics of the National Academy of Sciences of Ukraine, Kyiv, Ukraine, ⁴Universidad de Santiago de Chile, Santiago, Chile, ⁵Universidad Diego Portales, Santiago, Chile

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BF-07. Artificial symmetry design of spin topology and its spin excitations

Y. Zhang¹, M. Cai¹, H. Yu², K. Shen¹, J. Zhang¹

¹School of Physics and Astronomy, Beijing Normal University, Beijing, China, ²School of Integrated Circuit Science and Engineering, Beihang University, Beijing, China

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BF-08. Skyrmion motion in synthetic antiferromagnets and ferrimagnets driven by asymmetric spin wave emission

C. Barker¹, C. Parton-Barr², C. Marrows², O. Kazakova^{1,3}, C. Barton¹

¹National Physical Laboratory, Teddington, United Kingdom, ²School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom, ³Department of Electrical and Electronic Engineering, University of Manchester, Manchester, United Kingdom

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05:00 PM-05:15 PM

BF-09. Skyrmion–Antiskyrmion Lattice in Anisotropic Frustrated Chiral Magnets

S. Banik¹, N. Kiselev², A. Nandy¹

¹School of Physical Sciences, National Institute of Science Education and Research, Jatni, Odisha, India, ²Peter Grunberg Institute, Forschungszentrum Julich, Julich, Germany

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BF-10. Skyrmion Hall effect in d-wave altermagnets

N. T. Bechler, J. Masell

Institute of Theoretical Solid State Physics, Karlsruhe Institute of Technology, Karlsruhe, Germany

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SESSION BG: MAGNETIC RECORDING AND MEDIA

Co-Chair(s): S. Piramanayagam, *School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore, Singapore* and C. Rea, *Seagate Technology, Edina, Minnesota, United States*

Tuesday, April 14, 2026

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Exchange 10

02:00 PM-02:15 PM

BG-01. SNR estimation of anomalous Hall effect-based HDD reader for 4 Tbps by using read head equivalent circuit

K. Okamoto, S. Shirotori, A. Kikitsu, K. Yamada, Y. Higashi

Toshiba Corporation, Kawasaki-shi, Kanagawa-ken, Japan

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02:15 PM-02:30 PM

BG-02. Multilayered Magnetic Recording Media by Flip-Disk Bonding

B. L. Reese^{1,2^}, J. Chang^{1,2}, D. E. Laughlin^{1,2}, J. Zhu^{1,2,3}

¹*Materials Science, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States*, ²*Data Storage Systems Center, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States*, ³*Electrical and Computer Engineering, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States*

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02:30 PM-02:45 PM

BG-03. Demonstrating magnetic memory in iron-rhodium thin film structures using a quantum diamond microscope

K. V. Ung^{1,2,3}, G. M. Stephen⁴, N. Blumenschein⁴, S. W. LaGasse⁴, S. P. Bennett⁵, R. Walsworth^{1,2,3}, A. Friedman⁴, P. Petruzzi⁴

¹*Physics, University of Maryland, Washington, District of Columbia, United States*, ²*Joint Quantum Institute, College Park, Maryland, United States*, ³*Quantum Technology Center, College Park, Maryland, United States*, ⁴*Laboratory for Physical Sciences, College Park, Maryland, United States*, ⁵*Naval Research Laboratory, Washington, District of Columbia, United States*

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02:45 PM-03:00 PM

BG-04. Multiple Sensor Magnetic Recording for Conventional and Shingled Heat Assisted Magnetic Recording

C. Rea, S. Granz, F. Erden, G. Ju, J. Thiele, P. Lu

Seagate Technology, Edina, Minnesota, United States

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03:00 PM-03:15 PM

BG-05. Reliability Test Techniques in Tabo Search Detection for Enhancing BER Performance of Array Reader Bit-Patterned Magnetic Recording Systems

M. Mattayakan, N. Rueangnetr, K. Kankhunthod, C. Warisarn

School of Integrated Innovative Technology, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand

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BG-06. Antiparallel Coupled Oscillation in a Spin-Torque Oscillator for MAMR using Negative Spin Polarization

Y. Nakagawa, N. Narita, M. Takagishi, Y. Hayakawa, J. Numata, R. Osamura, T. Maeda

Corporate Laboratory, Toshiba Corporation, Kawasaki, Kanagawa, Japan

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Break

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BG-07. Fundamental Limit and General Methods of Multi-level Modulation for Magnetic Recording

T. Wu, J. Xing, P. Zhang, C. Chen

Huawei Technologies Co., Ltd., Moscow, Russian Federation

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04:15 PM-04:30 PM

BG-08. Partitioning Areal Density Gain of Shingled Magnetic Recording

X. Zheng, J. Gadbois, C. Rea

Seagate Technology, Bloomington, Minnesota, United States

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04:30 PM-04:45 PM

BG-09. Combining Unequal Bit Islands and Coding Design for Areal Density Enhancing in Dual-Layer Bit-Patterned Magnetic Recording Systems

R. Sriyapai¹, N. Rueangnetr¹, S. Koonkarnkhai², C. Warisarn¹

¹*King Mongkut's Institute of Technology Ladkrabang, Lat Krabang, Bangkok, Thailand*, ²*Faculty of Science and Technology, Nakhon Pathom Rajabhat University, Nakhon Pathom, Nakhon Pathom, Thailand*

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04:45 PM-05:00 PM

BG-10. Mitigating Track Misregistration with a DBSCAN Algorithm in Two-Track Reading with a Single Reader for Shingled Magnetic Recording

P. Kochcha, K. Kankhunthod, C. Warisarn

School of Integrated Innovative Technology, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand

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05:00 PM-05:15 PM

BG-11. A study of thermal spot shape in dual-layered heat assisted magnetic recording

Y. Nakamura¹, T. Watanabe¹, M. Nishikawa¹, S. Greaves², Y. Kanai³, Y. Okamoto¹

¹*Graduate School of Science and Engineering, Ehime University, Matsuyama, Japan*, ²*RIEC, Tohoku University, Sendai, Japan*, ³*Niigata Institute of Technology, Kashiwazaki, Japan*

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BG-12. Multiscale micromagnetic / atomistic modeling of heat assisted magnetic recording

M. Gija¹, A. Dobrynin², K. McNeill², M. Gubbins², T. Mercer¹, P. Bissell¹, S. Lepadatu¹

¹*University of Central Lancashire, Bolton, United Kingdom*, ²*Seagate Technology, Derry, United Kingdom*

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SESSION BH: BULK SOFT MAGNETIC MATERIALS AND PM MOTOR ARCHITECTURES FOR HIGH-POWER SYSTEMSChair(s): J. Fuzer, *Institute of Physics, P. J. Šafárik University, Kosice, Slovakia*

Tuesday, April 14, 2026

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Exchange 11

02:00 PM-02:30 PM**BH-01. Zr/Nb-Doped Cobalt Iron Boron Alloys for High Power Applications in Extreme Environments**M. Mancias¹, N. M. Bruno², V. Keylin², A. Leary², K. Chinnathambi³, R. D. Noebe², K. Srinivasan¹¹*Electrical and Computer Engineering, Boise State University, Boise, Idaho, United States*, ²*Materials and Structures Division, NASA Glenn Research Center, Cleveland, Ohio, United States*, ³*Boise State Center for Materials Characterization, Boise State University, Boise, Idaho, United States*[View Digest Text](#)**02:30 PM-02:45 PM****BH-02. Effects of Bending Strain on the Magnetic Properties of Single-Phase Wound Transformer Cores**Y. Ichihara¹, H. Inoue¹, T. Omura¹, K. Senda²¹*JFE Steel Corporation Steel Research Laboratory, Kurashiki, Okayama, Japan*, ²*West Japan Solution Division, JFE Techno-Research Corporation, Kurashiki, Okayama, Japan*[View Digest Text](#)**02:45 PM-03:00 PM****BH-03. Influence of Heat-Treatment on Magnetic Properties of Melt-Spun Fe-6.5wt.%Si Ribbons**S. Aija¹, S. Muroga¹, Y. Endo^{1,2}¹*Department of Electrical Engineering, Tohoku University, Sendai, Miyagi, Japan*, ²*Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan*[View Digest Text](#)**03:00 PM-03:15 PM****BH-04. Magnetic properties of dust cores composed of Si-gradient Fe-Si powders**Y. Kodama¹, S. Yoshida², S. Aija¹, S. Okamoto^{2,3,4}, T. Takashita⁵, Y. Oda⁵, T. Okubo⁵, Y. Zaizen⁵, Y. Endo^{1,3}¹*Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan*, ²*Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai, Japan*, ³*Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan*, ⁴*National Institute for Materials Science (NIMS), Tsukuba, Japan*, ⁵*Steel Research Laboratory, JFE Steel Corporation, Chiba, Japan*[View Digest Text](#)**03:15 PM-03:30 PM****BH-05. A multi-lithic composite toroidal inductor using Finemet with soft iron powder insertion for high-frequency power converters**G. Banerjee¹, D. Roy¹, S. Meti², D. Mandal², N. Bhat², S. Shivashankar², M. Sengupta¹¹*Electrical Engineering, IEST Shibpur, Howrah, West Bengal, India*, ²*Centre for Nano Science and Engineering, Indian Institute of Science, Bengaluru, Karnataka, India*[View Digest Text](#)

03:30 PM-04:00 PM

Break

04:00 PM-04:30 PM**BH-06. Design for Recycling: Prototyping a Rib-less Interior Permanent Magnet Rotor with Enhanced Disassembly**A. Mohammadi Ajamloo^{1,2}, V. Van de Peer¹, M. Ibrahim^{1,2,3}, P. Sergeant^{1,2}¹*Electromechanical, Systems and Metal Engineering, Ghent University, Ghent, Belgium*, ²*FlandersMake@UGent – corelab MIRO, Leuven, Belgium*, ³*Department of Electrical Engineering, Kafrelsheikh University, Kafr el-Sheikh, Egypt*[View Digest Text](#)

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BH-07. Optimization Analysis of Core Loss and Rotor Eddy Current Loss in Aircraft Excitation Built-In Hybrid Excitation Brushless Machine

L. Du¹, Z. Zhang¹, C. Wang²

¹Nanjing University of Aeronautics and Astronautics, Nanjing, Jiangsu, China, ²Anhui Polytechnic University, Wuhu, China

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BH-08. Magnet Segmentation Strategy Considering Electromagnetic Force in Large-Scale Wind Generators with Surface-Mounted Magnets

W. Wang^{2,1}, Y. Wang², C. Zhang², H. Wen³, L. Wu², T. Zou¹, D. Gerada¹, C. Gerada¹

¹UNIVERSITY OF NOTTINGHAM, Nottingham, United Kingdom, ²Zhejiang University, Hangzhou, China, ³Zhejiang University of Science and Technology, Hangzhou, China

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05:00 PM-05:15 PM

BH-09. Comparative Study of Frameless Torque Motors Based on Integrated Magnetic Ring

J. Hu¹, J. Cao¹, F. Zhao², Q. Zhang³, H. Yi³, G. Lyu⁴

¹School of Electrical and Electronic Engineering, Harbin Institute of Technology, Shenzhen, Guangdong, China, ²School of Robotics and Advanced Manufacture, Harbin Institute of Technology (Shenzhen), Shenzhen, China, ³China Rare Earth Group Innovation Technology Co., Ltd, Shenzhen, China, ⁴Power China Huadong Engineering Co., Ltd, Hangzhou, China

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SESSION BP: PERMANENT MAGNET MACHINES AND MAGNETICALLY GEARED MACHINES II (POSTER SESSION)

Chair(s): W. Wang, University of Nottingham, Nottingham, United Kingdom and X. Liu, Hunan University, China

Tuesday, April 14, 2026

02:30 PM-05:30 PM

Exchange Hall

BP-01. Core Loss Prediction of IPMSMs Considering Magnetic Field Behavior Using Inverter-Motor Co-Simulation

K. Yu¹, S. Eom¹, T. Kim¹, H. Ban¹, S. Kim¹, J. Park¹, Y. Kim³, K. Shin², J. Choi¹

¹Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), ²Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of), ³Biosystems Machinery Engineering, Chungnam National University, Daejeon, Korea (the Republic of)

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BP-02. Design of a Fault-Tolerant Wind Power PMSG Based on Subtransient Reactance Analysis for Interturn Short-Circuit Faults

S. Kim¹, K. Yu¹, H. Ban¹, J. Park¹, Y. Choi¹, K. Shin², J. Choi¹

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

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BP-03. Multiphysics Analysis and Optimal Design of PMA-SynRM Considering Electromagnetic and Mechanical Stiffness

S. Kim¹, H. Ban¹, W. Jung¹, M. Nguyen¹, D. Hoang¹, Y. Kim², K. Shin³, J. Choi¹

¹Department of Electrical Engineering, Chungnam National University, Daejeon, Daejeon, Korea (the Republic of), ²Department of Biosystems Machinery Engineering, Chungnam National University, Daejeon, Korea (the Republic of), ³Department of Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

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BP-04. Analytical Rotor Magnetic Field Modeling of Surface-Mounted PM Motors Considering Magnet Shaping and Manufacturing Tolerances

P. Wang¹, Z. Zhang¹, C. Liao¹, J. Li¹, L. Du¹, C. Wang²

¹Nanjing University of Aeronautics and Astronautics, Nanjing, China, ²Anhui Polytechnic University, Wuhu, Anhui, China

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BP-06. Effect of Motor Thickness on Induced Voltage in a Variable Magnetic Flux Motor with Mechanical Rotor Adjustment

A. Kazutaka, F. Akagi

Electrical Engineering and Electronics Program, Kogakuin University, Tokyo, Japan

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BP-07. A Study on Design to Improve Output of Axial Flux Motor for Collaborative Robots

M. Hong¹, S. Ko², J. Moon², W. Kim³, J. Lee¹

¹Electrical Engineering, Hanyang University, Seongdong-gu, --- Select One ---, Korea (the Republic of), ²Department of Next Generation SmartEnergySystem Convergence, Gachon University, Seong-Nam si, Korea (the Republic of), ³Department of Electrical Engineering, Gachon University, Seongnam, Korea (the Republic of)

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BP-08. A Compact Double-Rotor AFPM Motor With Coreless PCB Stator for Ultra-Thin Cooling Fans

M. Hong¹, S. Ko², J. Moon², W. Kim³, J. Lee¹

¹Electrical Engineering, Hanyang University, Seongnam-si, Korea (the Republic of), ²Department of Next Generation SmartEnergySystem Convergence, Gachon University, Seongnam, Korea (the Republic of), ³Electrical Engineering, Gachon University, Seongnam, Korea (the Republic of)

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BP-10. A Compact 48-V Dual-Stator Single-Rotor Axial-Flux PM Motor for Humanoid-Robot Elbow Actuators

J. Li, K. Yang, F. Xiong, T. Liu

School of Electrical and Electronic Engineering, Huazhong University of Science and Technology, Wuhan, Hubei, China

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BP-11. Hybrid 3D-Printed and Laminated Stator Core for Axial Flux Motors

P. Huang¹, T. Chang², L. J. Vera³, M. Kang³, M. Tsai¹

¹Mechanical Engineering, National Cheng Kung University, Tainan, Taiwan, ²Department of Vehicle Engineering, National Kaohsiung University of Science and Technology, Kaohsiung, Taiwan, ³Electric Motor Technology Research Center, National Cheng Kung University, Tainan, Taiwan

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BP-12. Electromagnetic Analysis of an Axial Flux Permanent Magnet Synchronous Motor with Overhang Structure Based on a Magnetic Equivalent Circuit Considering Leakage Flux

J. Jang¹, S. Kim¹, S. Lee¹, Y. Choi¹, K. Shin², J. Choi¹

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

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BP-14. EV Traction Motor Design Based on Series-Parallel Switching Control of a Multi-Stator Multi-Rotor Coreless PCB AFPM

D. Choi¹, S. Jeon¹, J. Kim¹, C. Jin², W. Kim¹

¹Gachon university, Seongnam-si, Gyeonggi-do, Korea (the Republic of), ²Electrical Engineering, Wonkwang University, Iksan, Korea (the Republic of)

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BP-16. Fast Prediction of Air-Gap Magnetic Flux Density and Electromagnetic Torque in Surface-Mounted Permanent Magnet Synchronous Motors

Z. Li, X. Zhao, M. Cheng

University of York, Coventry, United Kingdom

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SESSION BQ: RADIAL-FLUX PERMANENT MAGNET MOTORS (POSTER SESSION)

Chair(s): M. Hsieh, *Electrical Engineering, National Cheng Kung University, Tainan, Taiwan*

Tuesday, April 14, 2026

02:30 PM-05:30 PM

Exchange Hall

BQ-01. Comparison of Three-Phase and Asymmetric Six-Phase IPMSMs for Off-Road Mobile Machinery Applications

P. Ogrizek, M. Petrun

Institute of Power Engineering, FERl, University of Maribor, Maribor, Slovenia

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BQ-03. Optimized Asymmetric Two-Step Rotor Rib Skew Cut Design for Double-Spoke PMSMs

J. Kim, S. Lee, S. Kim, S. Lee, W. Kim

Gachon University, Seoul, Korea (the Republic of)

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BQ-04. High Power Density Slotless PMSM Design for 48V EPS Systems via Rotor Topology Optimization

D. Shin^{1,2}

¹Next-Generation Smart Energy Systems Convergence, Gachon University, Seongnam, Korea (the Republic of), ²Queensland University of Technology, Brisbane, Queensland, Australia

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BQ-05. Design and Analysis of a Three-Step Post-Assembly Magnetization Yoke for an 8-Pole Spoke-Type Motor

S. Lee¹, J. Kim¹, S. Lee¹, S. Ko¹, W. Kim²

¹Next Generation Energy System Convergence, Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of),

²Department of Electrical Engineering, Gachon University, Seongnam, Korea (the Republic of)

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BQ-06. Nonlinear Magnetic Characteristics of Surface-Mounted Permanent-Magnet Synchronous Machines Using a Deep-Learning-Assisted Subdomain Method

S. Eom¹, J. Yang¹, T. Kim¹, Y. Kim², K. Shin³, J. Choi¹

¹Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of), ²Biosystems Machinery Engineering,

Chung Nam National University, Daejeon, Korea (the Republic of), ³Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

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BQ-07. A Study on a Comprehensive 2-D Electromagnetic Field

H. Kim, S. Jung, J. Jung

Electric Engineering, Daegu University, Gyeongsan, Korea (the Republic of)

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BQ-08. A Rotor-Permeance-Based Harmonic Screening Method for Reducing Stator Core Loss in IPMSMs Under Flux-Weakening Operation

V. Nguyen¹, M. Hsieh¹, A. T. Huynh²

¹Department of Electrical Engineering, National Cheng Kung University, Tainan, Taiwan, ²Power Electronics, Machines and

Control Research Institute, University of Nottingham, Nottingham, United Kingdom

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BQ-09. A Computationally Efficient and Accurate Harmonic Current Selection Method for Torque Ripple Suppression in PMSM

Y. Kwon, G. Lee, M. Jyoung, N. Kim, S. Jung

Department of Electrical and Computer Engineering, Sungkyunkwan University, Suwon, Korea (the Republic of)[View Digest Text](#)**BQ-10. Impact of Mutual Inductance Variation on Fault-Tolerant Operation of Dual Three-Phase PMSMs**

H. Yang, S. Jung, S. Park, D. Park

Sungkyunkwan University, Suwon, Korea (the Republic of)[View Digest Text](#)**BQ-11. A Study on the Comparison of Performance Characteristics of Fractional-Slot SPMSM with Spread-Concentrated Winding**

H. Kim, S. Jung, H. Kang, J. Jung

Electric Engineering, Daegu university, Gyeongsan, Korea (the Republic of)[View Digest Text](#)**BQ-12. A Study on the Design of a Vehicle Traction Motor to Improve Power Density Through the Application of Multi-Pole Fractional Slots**

S. Song, K. Lee, M. Park, J. Lee

Intelligent Mechatronics Research Center, Korea Electronics Technology Institute, Bucheon-si, Korea (the Republic of)[View Digest Text](#)**BQ-13. The Influence of Geometric Scaling on Power Density and Efficiency of PMSM Using High-Temperature-Resistant Electromagnetic Wire**L. Liu¹, Y. Sui^{1,2}, X. Liang¹, P. Zheng¹, M. Zhu³*¹School of Electrical Engineering and Automation, Harbin Institute of Technology, Harbin, China, ²Zhengzhou Research Institute, Harbin Institute of Technology, Zhengzhou, China, ³AVIC Xi'an Flight Automatic Control Research Institute, Xi'an, Shaanxi, China*[View Digest Text](#)**BQ-14. A Study on Rotor Design for Zero-Sequence Current Reduction in Single DC-Bus Dual Inverter IPMSM**

D. Kim, D. Ji, S. Oh, S. Song, H. Lee

Dankook University, Yongin, Korea (the Republic of)[View Digest Text](#)**SESSION BR: SOFT MAGNETICS MATERIALS (POSTER SESSION)**Chair(s): S. Dobák, *Institute of Physics, P. J. Šafárik University, Kosice, Slovakia*

Tuesday, April 14, 2026

02:30 PM-05:30 PM

Exchange Hall

BR-02. Application and Performance Verification of Novel Silicon Gradient Steel Sheet in Interior Permanent Magnet Synchronous MotorsI. Cirozlar¹, K. Nakamura¹, Y. Zaizen², T. Okubo², Y. Oda²*¹Tohoku University, Sendai, Miyagi, Japan, ²JFE Steel, Tokyo, Japan*[View Digest Text](#)**BR-03. Optimization and Experimental Study of a Signal Conditioning System Based on SST Monolithic Detection**

H. Wang, M. Shi, T. Li, S. Yuan, L. Zhang, Y. Ma, Y. Gao, R. Cheng, F. Yang, Y. Li

Beihang University, Beijing, China[View Digest Text](#)

BR-05. Silicon Alloying Effects on the Magnetic Performance of Fe₇₃Co₂₇.

L. Braga Silva, C. Bormio-Nunes

Department of Materials Engineering (DEMAR), University of Sao Paulo, Lorena, São Paulo, Brazil

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BR-06. An analytical formula for stress-dependent anhysteretic behaviour

L. Daniel

Laboratoire de Génie Électrique et Électronique de Paris, CentraleSupélec - Université Paris-Saclay, Gif sur Yvette, France

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BR-07. Structural and Magnetic Properties of Ga:YIG Films Grown by Pulsed Laser Deposition on GGG and sGGG substrates

L. Peeters, J. Lamberts, L. Flajsman, S. van Dijken

Applied Physics, Aalto University, Espoo, Finland

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BR-08. Study of Magnetization Reversal of CoPt/Garnet Structures by Serial Magnetic Force Microscopy

M. Temiriazeva, A. Temiriazhev

Horiba France SAS, Lille, France

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BR-09. Contactless Determination of Martensitic Phase in Austenitic Steels

T. Damatopoulou

NTUA, Athens, Greece

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BR-10. Fabrication of Permendur-based Ferromagnetic Core via Directed Energy Deposition for Transcranial Magnetic Stimulation Coil

D. Mudakavi¹, V. E. Bodur^{1,2}, P. J. Udapudi¹, S. Smith³, M. Tashli⁴, R. L. Hadimani⁴, A. Rajendran², S. M. Adinarayanappa¹

¹Additive Manufacturing and 4D Printing Lab, Dept. of Mechanical, Materials and Aerospace Engineering, Indian Institute of Technology Dharwad, Dharwad, Karnataka, India, ²Metal Processing and Characterization Lab, Dept. of Mechanical Materials and Aerospace Engineering, Indian Institute of Technology Dharwad, Dharwad, Karnataka, India, ³Dept. of Chemical and Life Sciences Engineering, Virginia Commonwealth University, Richmond, Virginia, United States, ⁴Dept. of Mechanical and Nuclear Engineering, Virginia Commonwealth University, Richmond, Virginia, United States

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BR-12. Low-Loss High-Frequency Properties of Submicron-sized Disordered Fe-Ni Alloy Powders

S. Asano, A. Fujita, S. Okada

National Institute of Advanced Industrial Science and Technology (AIST), Nagoya, Aichi, Japan

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BR-13. Entropy-Stabilized Structural and Magnetic Behaviour in High-Entropy Spinel oxides

N. Sharma

Physics, Thapar institute of Eng & Technology, Patiala, Punjab, India

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BR-14. Influence of Non-magnetic Ion on the Physical Properties of Sm₃Fe_{5-x}Mn_xO₁₂ for Ferrite Resonator Antenna

A. Aakash

Physical Sciences, Banasthali Vidyapith, Rajasthan, Rajasthan, India

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BR-15. Magnetic Properties of the Iron-based SMCs with Al₂O₃ InsulationP. Kollár¹, M. Tkáč^{1,2}, J. Fuzer¹, R. Maciaszek¹, M. Fáberová², R. Bureš²¹Institute of Physics, Faculty of Science, P.J.Šafárik University, Košice, Slovakia, ²Institute of Materials Research, Slovak Academy of Sciences, Košice, Slovakia[View Digest Text](#)**BR-16. Full Hysteresis Loop Measurement Technique for Soft Magnetic Material in the Megahertz Range**H. Tanaka¹, T. Mannen^{1,2}, T. Isobe¹, E. Kita¹, H. Yanagihara¹¹Department of Applied Physics, University of Tsukuba, Tsukuba, Ibaraki, Japan, ²Department of Fundamental Engineering, Utsunomiya University, Utsunomiya, Japan[View Digest Text](#)**SESSION BS: MAGNETOTRANSPORT (POSTER SESSION)**Chair(s): T. Kato, *IMaSS, Nagoya University, Nagoya, Aichi, Japan*

Tuesday, April 14, 2026

02:30 PM-05:30 PM

Exchange Hall

BS-01. Antisymmetric magnetoresistance in Fe₃GeTe₂ inhomogeneous nanoflake

A. Bera, S. Mukhopadhyay

Department of Physics, Indian Institute of Technology, Kanpur, Kanpur, Uttar Pradesh, India[View Digest Text](#)**BS-02. Highly Efficient Field-free Switching of Perpendicular Yttrium Iron Garnet with Collinear Spin Current**M. Yang¹, H. Ding²¹King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia, ²Nanjing University, Nanjing, China[View Digest Text](#)**BS-04. Growth temperature dependent anomalous Nernst effect in FePd thin films on SrTiO₃ (001) substrates**S. Yoshida¹, H. Naganuma^{1,2}, T. Miyamachi¹, M. Mizuguchi^{1,3}¹Nagoya University, Nagoya, Japan, ²Tohoku University, Sendai, Japan, ³Osaka University, Toyonaka, Japan[View Digest Text](#)**BS-05. Longitudinal Spin Seebeck effect in Tm substituted Yttrium Iron Garnet**S. Sahoo², A. Sola¹, A. Magni¹, F. Celegato¹, V. Basso¹, S. K. Mishra², M. Kuepferling¹¹Istituto Nazionale di Ricerca Metrologica, Torino, Italy, ²School of Materials Science and Technology, IIT (BHU), Varanasi, India[View Digest Text](#)**BS-06. The hidden universality of unusual and unidirectional magnetoresistance in magnetic bilayers**

X. Wang

School of Science and Engineering, The Chinese University of Hong Kong (Shenzhen), Shen Zhen, Guangdong, China[View Digest Text](#)**BS-07. Room temperature large z spin in topological insulator**

L. Liu

School of Physics and Astronomy, Shanghai Jiao Tong University, Shanghai, Shanghai, China[View Digest Text](#)**BS-08. Magnetotransport of Fully Compensated Synthetic Antiferromagnets**L. S. Palhares^{2,1}, J. Brandao¹, F. Béron²¹Brazilian Synchrotron Light Laboratory (LNLS), Brazilian Center for Research in Energy and Materials (CNPEM), Campinas, São Paulo, Brazil, ²Gleb Wataghin Institute of Physics (IFGW), University of Campinas (UNICAMP), Campinas, São Paulo, Brazil[View Digest Text](#)

BS-09. Electrical Control of Ultrafast Demagnetization in Graphene Spin Field-Effect Junctions

D. Muradas-Belinchón¹, S. Mukhopadhyay^{2,3}, F. Foggetti¹, S. N. Panda², O. Karis¹, P. M. Oppeneer¹, A. Barman², M. Kamalakar¹

¹Physics and Astronomy, Uppsala University, Uppsala, Sweden, ²Condensed Matter and Materials Physics, S. N. Bose National Center for Basic Sciences, Kolkata, West Bengal, India, ³Physical Sciences, Indian Institute of Science Education and Research Kolkata, Kolkata, West Bengal, India

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BS-10. Quantum Spin Transfer of Spin-Correlated Electron Pairs

S. Hwang¹, J. Oh¹, P. Haney², M. Stiles², K. Lee¹

¹Department of Physics, KAIST, Daejeon, Korea (the Republic of), ²Physical Measurement Laboratory, National Institute of Standards and Technology, Gaithersburg, Maryland, United States

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BS-11. Terahertz spin-current transparency through rough interfaces

J. Jechumtal¹, J. Zázvorka², O. Novák², P. Kubascik¹, P. Nemeč¹, M. Veis², L. Nadvornik¹, Z. Kaspar^{1,3}

¹Department of Chemical Physics and Optics, Charles University, Prague, Prague, Czechia, ²Physical Institute, Charles University in Prague, Prague, Czechia, ³Physical Institute, Czech Academy of Sciences, Prague, Czechia

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BS-12. Enhanced Berry Curvature in Topological Insulator-Molecular Diode Heterojunctions

Z. Parkin

Department of Physics and Astronomy, University of Leeds, Leeds, United Kingdom

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BS-13. Thermomagnetic Properties of Mixed-Valence $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ Manganite Films Near the $x = 0.2$ Morphotropic Phase Boundary

D. Peluso^{1,2,7}, M. A. Rengifo^{3,4,5}, J. Santiso⁶, M. Aguirre^{3,4,5}, S. Di Napoli^{1,2}, M. Quintero^{1,2}

¹Instituto de Nanociencia y Nanotecnología - CNEA - CONICET, Buenos Aires, Buenos Aires, Argentina, ²Departamento de Física de la Materia Condensada, GlyA - CNEA, Buenos Aires, Buenos Aires, Argentina, ³Departamento de Física de la Materia Condensada, Universidad de Zaragoza, Zaragoza, Zaragoza, Spain, ⁴Instituto de Nanociencia y Materiales de Aragón, Zaragoza, Zaragoza, Spain, ⁵Laboratorio de Microscopías Avanzadas, Universidad de Zaragoza, Zaragoza, Zaragoza, Spain, ⁶Catalan Institute of Nanoscience and Nanotechnology, Bellaterra, Barcelona, Spain, ⁷Universidad de Zaragoza, Zaragoza, Zaragoza, Spain

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BS-14. Second-Order Nonlinear Resistances in Single-Layer CoFeB films

B. Rong^{1,2}, J. Zhang^{1,2}, H. Zheng^{1,2}, Y. Yang^{1,2}

¹School of Information Science and Technology, ShanghaiTech University, Shanghai, Shanghai, China, ²Shanghai Engineering Research Center of Energy Efficient and Custom AI IC, ShanghaiTech University, Shanghai, Shanghai, China

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SESSION BT: FUNDAMENTAL PROPERTIES (POSTER SESSION)

Chair(s): A. B. Shick, *Condensed Matter Theory, Institute of Physics, the Czech Academy of Sciences, Prague, Czechia*
 Tuesday, April 14, 2026
 02:30 PM-05:30 PM
 Exchange Hall

BT-01. From layered ferrimagnetism to cubic antiferromagnetism in Mn–Sb–Te candidate magnetic topological insulators

E. Kochetkova², T. Groot², M. Tardieux⁴, M. Sahoo⁵, F. Pabst², I. Aguilera⁴, L. Corredor^{1,3}, A. Isaeva^{2,1,3}

¹Physics, Technical University Dortmund, Dortmund, Germany, ²Institute of Physics, University of Amsterdam, Amsterdam, Netherlands, ³Research Center Future Energy Materials and Systems, Bochum, Germany, ⁴Institute for Theoretical Physics, University of Amsterdam, Amsterdam, Netherlands, ⁵IFW Dresden, Dresden, Germany

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BT-03. Role of chemical pressure in spin-disordered Ho₂Ge_xTi_{2-x}O₇ system

M. Shukla¹, R. Upadhyay², V. K. Tiwari¹, J. Nayak¹, C. Upadhyay³

¹Physics, Indian Institute of Technology, Kanpur, Kanpur, Uttar Pradesh, India, ²Materials Science and Engineering, Indian Institute of Technology Gandhinagar, Gandhinagar, Gujrat, India, ³School of Materials Science and Technology, Indian Institute of Technology (Banaras Hindu University), Varanasi, Uttar Pradesh, India

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BT-04. Exploration of Large Magnetoresistance and Weak Anti-Localization in Topological Semimetal MnSn₂

V. K. Tiwari¹, R. Gupta¹, N. Sattawan¹, M. Mudgal¹, M. Shukla¹, P. Meena¹, V. Malik², K. Pal¹, J. Nayak¹

¹Physics, Indian Institute of Technology, Kanpur, Kanpur, Uttar Pradesh, India, ²Physics, Indian Institute of Technology, Roorkee, Roorkee, Uttarakhand, India

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BT-05. Magnetic interactions in compositionally complex and high entropy perovskite oxides BaIn_{1-x}M_xO_{3-δ} (M = Fe, Co, Sn, Ti)

A. Stanionyte^{1,4}, L. Corredor^{2,3}, R. Matyšek^{1,4}, M. Kamminga⁴, G. Perversi⁵, A. Isaeva^{1,2,3}

¹University of Amsterdam, Amsterdam, Netherlands, ²Faculty of Physics, Technical University of Dortmund, Dortmund, Germany, ³Research Center Future Energy Materials and Systems (RC FEMS), Bochum, Germany, ⁴Faculty of Science, Utrecht University, Utrecht, Netherlands, ⁵Faculty of Science and Engineering, Maastricht University, Maastricht, Netherlands

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BT-06. Installing canted ferromagnetism in pyrochlore titanates.

D. Sahu¹, K. Pal¹, D. Palai², D. Samal², P. Maji³, C. Sow¹

¹Physics, Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh, India, ²Physics, Institute of Physics, Bhubaneswar, Bhubaneswar, Odisha, India, ³Department of Polymer and Process Engineering, Indian Institute of Technology, Roorkee, Saharanpur, Uttarakhand, India

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BT-08. Magnetic circular dichroism in core-level X-ray photoelectron spectroscopy of altermagnetic RuO₂ films

Y. Lytvynenko^{1,2}, A. Akashdeep¹, T. Vo³, O. Tkach^{1,4}, S. Chernov⁵, A. Gloskovskii⁵, C. Schlueter⁵, C. Luo⁶, V. Ukleev⁶, F. Radu⁶, F. Kronast⁶, T. Hiroto⁷, A. Winkelmann⁸, J. Minár³, M. Kläui¹, G. Schönhense¹, G. Jakob¹, H. Elmers¹, O. Fedchenko⁹

¹Johannes Gutenberg University of Mainz, Mainz, Germany, ²V. G. Baryakhtar Institute of Magnetism of the NAS of Ukraine, Kyiv, Ukraine, ³New Technologies Research Center, University of West Bohemia, Plzen, Czechia, ⁴Sumy State University, Sumy, Ukraine, ⁵Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany, ⁶Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany, ⁷Nara Institute of Science and Technology, Nara, Japan, ⁸Academic Centre for Materials and Nanotechnology, AGH University of Science and Technology, Krakow, Poland, ⁹Physikalisches Institut, Goethe Universität Frankfurt, Frankfurt am Main, Germany

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BT-09. Chemical-Pressure Driven Suppression of Antiferromagnetism and Possible Quantum Criticality in CePd_{1-x}Ni_xGe

P. Tiwari², S. Saha¹, R. J. Choudhary¹, M. Saravanan¹, A. K. Yogi¹, R. Rawat¹

¹Physics, UGC-DAE Consortium for Scientific Research, Indore, Indore, Madhya Pradesh, India, ²Physics, UGC-DAE Consortium for Scientific Research, Indore, Madhya Pradesh, India

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BT-10. A novel gel-mediated, single-annealing route for the synthesis of polycrystalline skyrmion-host multiferroic Cu₂OSeO₃

R. Krishnan¹, P. Babu², P. Madduri¹

¹Sciences, IIITDM Kurnool, Kurnool, Andhra Pradesh, India, ²UGC DAE CSR, Mumbai, India

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BT-11. Ion-beam engineered Magnetic Carbon Nanotubes for Spintronic and MEMS Applications

P. Singhal¹, S. Gautam², S. Augustine³, K. Chae⁴

¹Physics, Panjab University, Chandigarh, Chandigarh, India, ²Dr. SSBUI CET, Panjab University, Chandigarh, Chandigarh, India,

³Physics, Deva Matha College, Kerala, Kottayam, India, ⁴Advanced Analysis and Data Center, Korea Advanced Institute of Science and Technology (KAIST), Seoul, Korea (the Republic of)

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BT-12. Probing Mixed Valence States and Ferromagnetic Coupling of Cr-Bi₂Se₃/YIG Heterostructures

J. Sun^{1,2}, P. Yan³, X. Chen², L. He³, W. Liu^{2,4}

¹Beijing Superstring Academy of Memory Technology, Beijing, China, ²Department of Electronic Engineering, Royal Holloway

University of London, Egham, United Kingdom, ³Jiangsu Provincial Key Laboratory of Advanced Photonic and Electronic

Materials, Nanjing University, Nanjing, China, ⁴Department of Engineering, University of Cambridge, Cambridge, United Kingdom

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BT-14. Non-monotonous Quantum de-coherence in Ferromagnetic Insulator/Topological Insulator Hetero-structure (EuS/Bi_{1.95}Sb_{0.05}Se₃)

S. Soni^{2,1}

¹Department of Atomic Energy (DAE), Homi Bhabha National Institute, IGCAR, Chennai, Tamil Nadu, India, ²Department of Atomic

Energy (DAE), Indira Gandhi Centre for Atomic Research, Kalpakkam, Chennai, Tamil Nadu, India

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BT-15. Role of spin-orbit coupling in determining the electronic and magnetic ground state of 4d³ double perovskite ruthenates

A. A. Abraham, S. Manni

Physics, Indian Institute of Technology Palakkad, Kottayam, Kerala, India

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BT-16. Electronic and magnetic ground state of 4d³ double perovskite ruthenates : A₂LaRuO₆ (A = Ca, Sr, Ba)

A. A. Abraham¹, R. Roy², R. Kulkarni³, S. Kanungo², S. Manni¹

¹Department of Physics, Indian Institute of Technology Palakkad, Kottayam, KERALA, India, ²School of Physical Sciences, Indian

Institute of Technology Goa, Farmagudi, Goa, India, ³Department of Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research, Mumbai, Maharashtra, India

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SESSION BU: NEUROMORPHIC, PROBABILISTIC, AND QUANTUM COMPUTING I (POSTER SESSION)Chair(s): A. Grimaldi, *Dipartimento di Ingegneria Elettrica e dell'Informazione, Politecnico di Bari, Messina, Italy*

Tuesday, April 14, 2026

02:30 PM-05:30 PM

Exchange Hall

BU-01. Back Propagation Eased by Spintronic-Hardware-Sampled Probabilistic Principal Components of GradientY. Xu, R. Zhang, C. Wan, S. Xia, x. li, S. Liu, S. Xiong, D. Kong, G. Yu, X. Han*Institute of Physics, Chinese Academy of Sciences, Beijing, Beijing, China*[View Digest Text](#)**BU-02. Spintronic Advantage Of Molecular Spin-valves For Reinforcement Learning**C. Baldassini^{1,2}, R. Licata², S. Bose³, M. Pistoia³, S. Sanna², I. Bergenti¹, R. Cecchini¹, V. A. Dediu¹, L. Gnoli¹, P. Graziosi¹, R. K. Rakshit¹, S. Roy¹, M. Singh¹, A. Riminucci¹¹CNR - ISMN Istituto Per Lo Studio Dei Materiali Nanostrutturati, Ancona, AN, Italy, ²DIFA, University of Bologna, Bologna, Italy,³University of Bologna, Bologna, Italy[View Digest Text](#)**BU-03. Reconfigurable Bidirectional Logic Gates Enabled by SOT-MRAM P-Bits for Boolean Satisfiability and Other Combinatorial Problems**S. Nallan, J. Zhu*Electrical and Computer Engineering, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States*[View Digest Text](#)**BU-05. Compress Magnetic Sensing for ITSC Fault Diagnosis of Induction Motor by Reinforcement Learning and Reduced Order Modeling**X. Guan, H. Zhang, X. Chen, C. Xu*College of Electrical Engineering and Automation, Fuzhou University, Fuzhou, Fujian, China*[View Digest Text](#)**BU-06. Tailoring Interlayer Exchange Coupling in Synthetic Antiferromagnet for Spintronic Neural Networks**Y. Huang², C. Cheng¹, J. Hsu², Y. Lin¹, W. Chang³, Y. Tseng¹¹Materials Science & Engineering, National Yang Ming Chiao Tung University, Hsinchu, Taiwan, ²Industry Academia Innovation School, Hsinchu, Taiwan, ³Powerchip Semiconductor Manufacturing Corporation, Hsinchu, Taiwan[View Digest Text](#)**BU-07. Physical Reservoir Composed of Two Modified Vortex Spin-Torque Oscillators**K. Horizumi¹, T. Chiba², T. Komine¹¹Graduate School of Sci. and Eng., Ibaraki University, Hitachi, Ibaraki, Japan, ²Graduate School of Sci. and Eng., Yamagata University, Yonezawa, Yamagata, Japan[View Digest Text](#)**BU-08. Physics-Guided Geometric Transformer with Evidential Uncertainty: A High-Fidelity Surrogate Framework for Robust Design of Dual-Flux-Modulator Magnetic Geared Machines**X. Zhang, X. Liu, P. Lin, S. Huang*College of Electrical and Information Engineering, Hunan University, Changsha, Hunan, China*[View Digest Text](#)

BU-09. Three-body Probabilistic Ising Machine with In-memory Computing based on Dual-mode Spintronic Memristor

Y. Lu¹, G. Zeng², Y. Li¹, R. Chen², Y. Hou^{1,3}, Y. Zhou², Q. Shao^{1,3}

¹Dept. of Electronic and Computer Engineering, The Hong Kong University of Science and Technology, Hong Kong, Hong Kong,

²School of Science and Engineering, The Chinese University of Hong Kong, Shenzhen, Shenzhen, Guangdong, China, ³AI Chip

Center for Emerging Smart Systems, InnoHK Centers, Hong Kong Science Park, Hong Kong, Hong Kong

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BU-10. Field-Free Spin–Orbit Torque Controlled Spintronic Synaptic and Neuronal Devices for Neuromorphic and Unconventional Computing

A. H. Lone¹, M. Tang¹, C. Florica², G. Setti¹

¹CEMSE (Integrated Intelligent Systems (I2S)), King Abdullah University of Science and Technology, Thuwal, Saudi Arabia, ²King

Abdullah University of Science and Technology (KAUST), Thuwal, Makkah, Saudi Arabia

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BU-11. Reservoir Computing with Heterogeneous Magnetic Metamaterials

R. Yagan¹, C. Swindells², I. T. Vidamour³, G. Venkat⁴, E. Vasilaki³, M. O. Ellis³, T. Hayward¹

¹CMBE, The University of Sheffield, Sheffield, South Yorkshire, United Kingdom, ²NIST, Boulder, Colorado, United States, ³The

University of Sheffield, Sheffield, South Yorkshire, United Kingdom, ⁴Diamond Light Source Ltd, Oxfordshire, United Kingdom

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BIERSTUBE

Tuesday, April 14, 2026

05:30 PM-06:45 PM

Exchange Hall

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**STUDENTS IN MAGNETISM NETWORKING EVENT**

Tuesday, April 14, 2026

05:30 PM-06:45 PM

The Gallery

SESSION CA: ACCELERATING INNOVATION: THE INDUSTRY-ACADEMIA SYNERGY IN MAGNETIC-BASED CRITICAL TECHNOLOGIES (PART A)

Chair(s): P. Bortolotti, *Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France*

Wednesday, April 15, 2026

08:30 AM-12:00 PM

Exchange Auditorium

08:30 AM-09:00 AM

CA-01. Accelerating Innovation in Data Storage: Heat Assisted Magnetic Recording

J. Thiele

Recording Media Operations, Seagate Technology, Fremont, California, United States

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09:00 AM-09:30 AM

CA-02. Device and Process Challenges in Tunneling Magnetoresistance Sensors

S. Mendisch, G. Masciocchi, S. Dounia, W. Raberg, J. Zimmer, A. Sharma, F. Brandl

Technology Development, Infineon Technologies, Neubiberg, Bavaria, Germany

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09:30 AM-10:00 AM

CA-03. Spin-transfer Torque MRAM – Overview and Recent Progress

G. Hu

IBM T J Watson Research Center, Yorktown Heights, New York, United States

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10:00 AM-10:30 AM

Break

10:30 AM-11:00 AM

CA-04. Rare-earth permanent magnets from an industry perspective

D. Ohmer

Research & Development, Vacuumschmelze GmbH & Co KG, Hanau, Hessen, Germany

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11:00 AM-11:30 AM

Round Table Discussion

SESSION CB: INERTIAL SPIN DYNAMICS AND NUTATIONChair(s): R. V. Mikhaylovskiy, *Physics, Lancaster University, Lancaster, United Kingdom*

Wednesday, April 15, 2026

08:30 AM-12:00 PM

Charter 1

08:30 AM-09:00 AM**CB-01. Bath-induced spin inertia**M. Gaspar Quarenta¹, M. Tharmalingam³, T. Ludwig⁴, H. Yuan⁵, L. Karwacki^{1,6}, R. Verstraten¹, R. A. Duine^{1,2}¹*Department of Physics, Utrecht University, Utrecht, Utrecht, Netherlands*, ²*Department of Applied Physics, Eindhoven University of Technology, Eindhoven, Noord-Brabant, Netherlands*, ³*Universitetet i Agder, Kristiansand, Norway*, ⁴*Department of Philosophy, Karlsruhe Institute of Technology, Karlsruhe, Germany*, ⁵*Institute for Advanced Study in Physics, Zhejiang University, Hangzhou, China*, ⁶*Institute of Molecular Physics, Polish Academy of Sciences, Poznan, Poland*[View Digest Text](#)**09:00 AM-09:30 AM****CB-02. Intrinsic Non-Markovian Magnetization Dynamics in Ferromagnets**V. Unikandanunni^{1,2}, F. Hartmann³, M. Bargheer^{3,4}, E. Fullerton⁵, S. Bonetti^{6,2}, J. Anders^{3,7}¹*Institute of Applied Physics, University of Bern, Bern, Switzerland*, ²*Department of Physics, Stockholm University, Stockholm, Sweden*, ³*Institute of Physics and Astronomy, University of Potsdam, Potsdam, Germany*, ⁴*Helmholtz-Zentrum Berlin for Materialien und Energie GmbH, Berlin, Germany*, ⁵*Center for Memory and Recording Research, University of California San Diego, San Diego, California, United States*, ⁶*Department of Molecular Sciences and Nanosystems, Ca' Foscari University of Venice, Venice, Italy*, ⁷*Department of Physics and Astronomy, University of Exeter, Exeter, United Kingdom*[View Digest Text](#)**09:30 AM-10:00 AM****CB-03. Role of angular momentum in ultrafast spintronics**U. Nowak¹, J. Schlegel¹, D. Angster¹, T. Danneegger¹, A. De², B. Stadtmüller³, M. Aeschlimann²¹*Physics Department, University of Konstanz, Konstanz, Germany*, ²*RPTU Kaiserslautern, Kaiserslautern, Germany*, ³*University of Augsburg, Augsburg, Germany*[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-11:00 AM**CB-04. Nutation: Separating the Spin from its Magnetic Moment**M. Aeschlimann¹, A. De¹, J. Schlegel², A. Lentfert¹, L. Scheuer¹, S. Benjamin¹, P. Pirro¹, G. von Freymann¹, U. Nowak²¹*Physics, RPTU University Kaiserslautern-Landau, Kaiserslautern, Germany*, ²*Physics, Universität Konstanz, Konstanz, Germany*[View Digest Text](#)**11:00 AM-11:30 AM****CB-05. Spin Waves in Inertial Spin Dynamics**S. Ghosh², M. Cherkasskii³, R. Mondal², A. Mook⁴, L. Rózsa^{1,5}¹*HUN-REN Wigner Research Centre for Physics, Budapest, Hungary*, ²*Indian Institute of Technology Dhanbad, Dhanbad, India*, ³*RWTH Aachen University, Aachen, Germany*, ⁴*University of Münster, Münster, Germany*, ⁵*Budapest University of Technology and Economics, Budapest, Hungary*[View Digest Text](#)

11:30 AM-12:00 PM

CB-06. Spin Inertia and Auto-Oscillations in Ferromagnets

R. Rodriguez², M. Cherkasskii¹, R. Jiang², R. Mondal³, A. Etesamirad², A. Tossounian², B. Ivanov^{4,5}, I. Barsukov²

¹RWTH Aachen University, Aachen, Germany, ²University of California, Riverside, Riverside, California, United States, ³Indian Institute of Technology (ISM) Dhanbad, Dhanbad, India, ⁴National Ukrainian Acad. Sci., Kiev, Ukraine, ⁵Radboud University, Nijmegen, Netherlands

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SESSION CC: UNCONVENTIONAL SPIN-ORBIT TORQUES

Chair(s): L. Avilés Félix, *Magnetism and Magnetic Materials, Centro Atomico Bariloche, San Carlos de Bariloche, Argentina*

Wednesday, April 15, 2026

08:30 AM-12:00 PM

Charter 2

08:30 AM-09:00 AM

CC-01. Unconventional Spin-Orbit Torques

A. Hoffmann

University of Illinois Urbana-Champaign, Urbana, Illinois, United States

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09:00 AM-09:15 AM

CC-02. Unconventional Spin-Orbit Torques in Topological Weyl Semimetal

L. Pandey^{1,2}, P. Rout¹, B. Zhao¹, K. Tenzin³, H. Bangar¹, J. Slawinska³, S. P. Dash^{1,2,4}

¹Department of Microtechnology and Nanoscience, Chalmers University of Technology, Göteborg, Sweden, ²Wallenberg Initiative Materials Science for Sustainability, Department of Microtechnology and Nanoscience, Chalmers University of Technology, Göteborg, Sweden, ³Zernike Institute for Advanced Materials, University of Groningen, Groningen, Netherlands, ⁴Graphene Center, Chalmers University of Technology, Gothenburg, Sweden

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09:15 AM-09:30 AM

CC-03. Bias-Field-Based Quantification of the Field-Like Spin–Orbit Torque in Magnetic Heterostructures

S. Zeilinger^{1,2,3}, F. Bruckner¹, D. Suess^{1,2}

¹Physics of Functional Materials, University of Vienna, Vienna, Austria, ²Research Platform MMM Mathematics-Magnetism-Materials, University of Vienna, Vienna, Austria, ³Vienna Doctoral School in Physics, University of Vienna, Vienna, Austria

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09:30 AM-09:45 AM

CC-04. Perpendicular Free Layer Switching with Unconventional Spin Orbit Torques: A Micromagnetic Modeling Study

G. Mihajlović, Y. Fan, T. Santos, M. Grobis, N. Robertson

Western Digital Corporation, San Jose, California, United States

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09:45 AM-10:00 AM

CC-05. Acoustic orbital Hall effect and orbital pumping in light-metal-ferromagnet bilayers

M. Wu, S. Ding, H. Matsumoto, P. Gambardella

ETH Zurich, Zurich, Switzerland

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10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM**CC-06. Unidirectional Orbital Hall Magnetoresistance in Ir-Based Heterostructures**D. Woo¹, S. Lee², S. Ko³, W. Kim¹, S. Yoon¹, G. Jung¹, H. Jeon¹, H. Cho¹, K. Kim³, B. Park⁴, J. Hong², S. LEE¹¹Semiconductor Engineering, Gachon University, Seongnam, Gyeonggi-do, Korea (the Republic of), ²Materials Science and Engineering, Yonsei University, Seoul, Korea (the Republic of), ³Physics, KAIST, Daejeon, Korea (the Republic of), ⁴Materials Science and Engineering, KAIST, Daejeon, Korea (the Republic of)[View Digest Text](#)**10:45 AM-11:00 AM****CC-07. Temperature-dependent spin-orbit torque generation in Topological insulator-magnetic multilayer heterostructures**S. Hait¹, B. A. Brereton^{1,2,3}, A. Yagmur¹, S. Sasaki¹, G. Burnell¹, C. Marrows¹¹School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom, ²ISIS Neutron and Muon Source, Harwell Science and Innovation Campus, Chilton, United Kingdom, ³Diamond Light Source, Harwell Science and Innovation Campus, Chilton, United Kingdom[View Digest Text](#)**11:00 AM-11:15 AM****CC-08. Synergistic Entropic and Thermally Induced Spin-Orbit Torques Driving Domain-Wall Motion Under Laser Heating**H. Awano

Graduate School Electronics and Information Engineering, Toyota Technological Institute, Nagoya, Aichi, Japan

[View Digest Text](#)**11:15 AM-11:30 AM****CC-09. Tuning the interfacial properties by work function engineering in W|Co|Cu| heterostructures**I. García Manuz^{1,2}, H. Madathil², S. Velez², P. Perna¹, S. Pizzini³, A. Thiaville⁴, F. Ajejas¹¹Instituto Madrileño de Estudios Avanzados Nanociencia (IMDEA-Nanociencia), Madrid, Spain, ²Dept. Física de la Materia Condensada and Condensed Matter Physics (IFIMAC), Universidad Autónoma de Madrid, Madrid, Spain, ³Université Grenoble Alpes, CNRS, Institut Néel, Grenoble, France, ⁴Laboratoire de Physique des Solides, Université Paris-Saclay, CNRS UMR, Orsay Cedex, France[View Digest Text](#)**11:30 AM-11:45 AM****CC-10. Numerical Investigation of Domain Wall Dynamics in Cross-Shaped Magnetic Heterostructures**C. Fu², Y. Cheng², P. Chen², C. Tsai³, C. Tsai³, J. Chang^{2,1}¹Power Mechanical Engineering, National Tsing Hua University, Hsinchu, Taiwan, ²Mechanical and Mechatronics Systems Research Laboratories, Industrial Technology Research Institute, Zhudong Township, Hsinchu County, Taiwan, ³Electronic and Optoelectronic System Research Laboratories, Industrial Technology Research Institute, Zhudong Township, Hsinchu County, Taiwan[View Digest Text](#)

SESSION CD: TOPOLOGICAL QUANTUM MATTERChair(s): A. Kashyap, *School of Basic Sciences, Indian Institute of Technology Mandi, Mandi, India*

Wednesday, April 15, 2026

08:30 AM-12:00 PM

Charter 3

08:30 AM-09:00 AM**CD-01. Atom-by-Atom Assembly of Topological Quantum Matter**J. Wiebe^{1,2}¹*Department of Physics, University of Hamburg, Hamburg, Germany,* ²*The Hamburg Centre for Ultrafast Imaging, Hamburg, Germany*[View Digest Text](#)**09:00 AM-09:15 AM****CD-02. Spinful Cooper pairing in ferromagnetic Josephson junctions with spin-orbit coupling layers**I. Kindiak, S. S. Mishra, A. Migliorini, B. Pal, S. Parkin*NISE, Max Planck Institute of Microstructure Physics, Halle, Germany*[View Digest Text](#)**09:15 AM-09:30 AM****CD-03. Chirality in the Kagome Metal CsV₃Sb₅**T. P. Lammerskötter¹, H. Elmers², H. Agarwal², A. Haghighirad⁶, O. Tkach², Y. Lytvynenko², S. Chernov³, M. Hoesch³, D. Kutnyakhov³, M. Scholz³, K. Rossnagel⁸, A. Gloskovskii⁵, C. Schlueter³, A. Winkelmann⁷, T. Lee⁴, R. Claessen⁵, M. Le Tacon⁶, J. Demsar², G. Schönhense², O. Fedchenko¹¹*Physikalisches Institut, Goethe-Universität Frankfurt am Main, Frankfurt am Main, Germany,* ²*Johannes Gutenberg-Universität, Mainz, Germany,* ³*Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany,* ⁴*Diamond Light Source Ltd., Didcot, United Kingdom,* ⁵*Julius-Maximilians-Universität, Würzburg, Germany,* ⁶*Karlsruhe Institute of Technology, Karlsruhe, Germany,* ⁷*AGH University of Krakow, Krakow, Poland,* ⁸*Christian-Albrechts-Universität zu Kiel, Kiel, Germany*[View Digest Text](#)**09:30 AM-09:45 AM****CD-04. Magnetic chimera quasiparticles in the ferromagnetic Affleck-Kennedy-Lieb-Tasaki state**S. Miyahara¹, I. Maruyama²¹*Fukuoka University, Fukuoka, Japan,* ²*Fukuoka Institute of Technology, Fukuoka, Japan*[View Digest Text](#)**09:45 AM-10:00 AM****CD-05. Scanning Thermal Gate Microscopy of Magnetic Domains in a Magnetic Weyl Semimetal Nanoribbon**M. Razeghi¹, J. Spiece¹, V. Fonck¹, M. Rohde¹, Y. Zhang³, R. Joris⁴, P. Dobson⁵, J. Weaver⁵, L. Pereira⁴, S. Granville³, P. Gehring^{1,2}¹*IMCN, Université catholique de Louvain, Louvain-la-Neuve, Belgium,* ²*WEL Research Institute, Wavre, Belgium,* ³*Robinson Research Institute, Victoria University of Wellington, Wellington, New Zealand,* ⁴*KU Leuven, Leuven, Belgium,* ⁵*University of Glasgow, Glasgow, United Kingdom*[View Digest Text](#)**10:00 AM-10:30 AM**

Break

10:30 AM-11:00 AM**CD-06. Disordered magnetism in two-dimensional van der Waals compounds**B. Pal*NISE, Max Planck Institute of Microstructure Physics, Halle Saale, Germany*[View Digest Text](#)

11:00 AM-11:15 AM

CD-07. Anisotropic Local Spin Interactions and Spin Dynamics and in the Centrosymmetric Skyrmion Host Gd_2PdSi_3

M. Gomilšek^{1,2}, T. Hicken^{3,4}, M. Wilson^{5,4}, K. J. Franke^{6,4}, B. M. Huddart^{7,4}, A. Štefančič⁸, S. J. Holt⁸, G. Balakrishnan⁸, D. Mayoh⁸, M. Birch^{10,9,4}, S. H. Moody^{11,12,4}, H. Luetkens³, Z. Guguchia³, M. T. Telling¹³, P. J. Baker¹³, S. J. Clark⁴, T. Lancaster⁴, P. J. Bereciartua Perez¹⁴, S. Francoual¹⁴, M. Littlehales^{4,14}, P. Hatton⁴

¹Faculty of Mathematics and Physics, University of Ljubljana, Ljubljana, Slovenia, ²F5 Condensed Matter Physics, Jozef Stefan Institute, Ljubljana, Slovenia, ³Laboratory for Muon Spin Spectroscopy, Paul Scherrer Institut, Villigen PSI, Switzerland, ⁴Department of Physics, Durham University, Durham, United Kingdom, ⁵Department of Physics and Physical Oceanography, Memorial University of Newfoundland, St. John's, Newfoundland, Canada, ⁶School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom, ⁷Department of Physics, Clarendon Laboratory, University of Oxford, Oxford, United Kingdom, ⁸Department of Physics, University of Warwick, Coventry, United Kingdom, ⁹Max Planck Institute for Intelligent Systems, Stuttgart, Germany, ¹⁰RIKEN Center for Emergent Matter Science, Wako, Japan, ¹¹Laboratory for Neutron Scattering and Imaging, Paul Scherrer Institut, Villigen, Switzerland, ¹²Department for Hydrogen Technology, Institute for Energy Technology, Kjeller, Norway, ¹³ISIS Facility, STFC Rutherford Appleton Laboratory, Didcot, United Kingdom, ¹⁴Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany

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11:15 AM-11:30 AM

CD-08. Anisotropic magnetoresistance in heterojunction between phase-separated ferromagnet and high-T_c superconductor

Y. Chen¹, D. Qu^{1,2}, J. G. Lin^{1,2}

¹Center for Condensed Matter Sciences, National Taiwan University, Taipei, Taiwan, ²Center for Atomic Initiatives for New Materials, National Taiwan University, Taipei, Taiwan

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11:30 AM-11:45 AM

CD-09. Spin-disorder effects on the nonreciprocal resistivity in room-temperature chiral magnets

D. Nakamura¹, M. Lee², Z. Liu¹, K. Karube¹, M. Mochizuki², N. Nagaosa^{1,3}, Y. Tokura^{1,4}, Y. Taguchi^{1,5}

¹Center for Emergent Matter Science, RIKEN, Wako, Japan, ²Waseda University, Shinjuku-ku, Tokyo, Japan, ³Fundamental Quantum Science Program (FQSP), TRIP Headquarters, RIKEN, Wako, Saitama, Japan, ⁴Tokyo College and Department of Applied Physics, University of Tokyo, Bunkyo-ku, Tokyo, Japan, ⁵Baton Zone Program, TRIP Headquarters, RIKEN, Wako, Saitama, Japan

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11:45 AM-12:00 PM

CD-10. Increased coercive field in $Co_3Sn_2S_2$ thin films grown by plasma-assisted molecular beam epitaxy.

V. Fonck¹, M. Rohde^{1,3}, G. He³, H. Xia², H. Wu¹, M. Razeghi¹, M. Seo², C. Merckling³, F. Molina-Lopez², P. Gehring^{1,4}

¹IMCN, UCLouvain, Louvain-la-Neuve, Belgium, ²KULeuven, Leuven, Belgium, ³Imec, Leuven, Belgium, ⁴WEL Research Institute, Wavre, Belgium

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SESSION CE: RARE-EARTH FREE HARD MAGNETIC MATERIALSChair(s): I. Dirba, *Institute of Materials Science, TU Darmstadt, Darmstadt, Germany*

Wednesday, April 15, 2026

08:30 AM-12:00 PM

Charter 4

08:30 AM-09:00 AM**CE-01. W-type Hexaferrites an Attractive Ceramic Permanent Magnet?**J. Frandsen, P. Namangalam Subrahmanian, M. Christensen*Department of Chemistry, Aarhus University, Aarhus C, Denmark*[View Digest Text](#)**09:00 AM-09:15 AM****CE-02. Recycling of Injection-Molded Sr-Ferrite Magnet Waste for Additively Manufactured and Sintered Magnets**P. Jenuš Belec¹, A. Mishra¹, A. Iveković¹, A. Kocjan¹, B. Belec², K. Kosmač³, B. Saje³¹*Department for Nanostructured Materials, Jozef Stefan Institute, Ljubljana, Slovenia,* ²*Materials Research Laboratory, University of Nova Gorica, Ajdovscina, Slovenia,* ³*Kolektor Mobility d.o.o., Idrija, Slovenia*[View Digest Text](#)**09:15 AM-09:30 AM****CE-03. Correlation between magnetism and stacking in Sr hexaferrites**V. H. Sosa Fierro, S. Gallego*Multiscale Materials Modelling, Institute of Materials Science of Madrid (ICMM-CSIC), Madrid, Madrid, Spain*[View Digest Text](#)**09:30 AM-09:45 AM****CE-04. Influence of Low Oxygen Partial Pressure on Phase Formation and Magnetic Properties of W-type Hexaferrite**P. Namangalam Subrahmanian¹, J. Frandsen², A. Povlsen Laursen¹, J. Simonsen¹, M. Christensen³¹*Department of Chemistry, Aarhus University, Aarhus C, Denmark,* ²*Interdisciplinary Nanoscience Center, Aarhus University, Aarhus C, Denmark,* ³*Department of Chemistry and Interdisciplinary Nanoscience Center (iNANO), Aarhus University, Aarhus C, Denmark*[View Digest Text](#)**09:45 AM-10:00 AM****CE-05. The Properties of Packings of Magnetic Hexagonal Platelets**F. Pinto Fortkamp, A. R. Insinga, R. Bjørk*Department of Energy Conversion and Storage, Technical University of Denmark, Kongens Lyngby, Denmark*[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-11:00 AM**CE-06. An X-ray View on Permanent Magnets: Interaction Domains in Nd-Fe-B**P. Klassen¹, D. Guenzing^{1,3}, A. Aubert², T. Feggeler³, B. Eggert¹, J. Neethirajan⁴, L. Schäfer², F. Maccari², R. Knapman¹, B. Nguyen¹, M. Guizar-Sicairos⁵, V. Scagnoli⁵, M. Holler⁵, D. Shapiro³, A. Ditter³, E. Bruder², X. Chen⁶, B. Gault⁶, K. Everschor-Sitte¹, H. Wende¹, K. Skokov², O. Gutfleisch², C. Donnelly⁴, K. Ollafs^{7,1}¹*University Duisburg-Essen, Duisburg, Germany,* ²*Technical University Darmstadt, Darmstadt, Germany,* ³*Advanced Light Source, Berkeley, California, United States,* ⁴*Max Planck Institute for Chemical Physics of Solids, Dresden, Germany,* ⁵*Paul Scherrer Institut, Villigen, Switzerland,* ⁶*Max Planck Institute for Sustainable Materials, Düsseldorf, Germany,* ⁷*Kirchhoff Institute for Physics, Heidelberg University, Heidelberg, Germany*[View Digest Text](#)

11:00 AM-11:15 AM**CE-07. Magnetic properties of M-type hexaferrite nanoparticles**B. Muzzi³, M. Boldrini^{2,3}, M. Albino³, F. Fabrizi de Biani², A. Gerace⁴, C. Innocenti⁴, D. Delmonte¹, F. Albertini¹, C. Sangregorio³, [C. de Julián Fernández](#)¹¹*Istituto dei Materiali per l'Elettronica ed il Magnetismo Consiglio Nazionale delle Ricerche, Parma, Italy*, ²*Università degli Studi di Siena, Siena, Italy*, ³*CNR-ICCOM, Sesto Fiorentino, Italy*, ⁴*Università degli Studi di Firenze, Sesto Fiorentino, Italy*[View Digest Text](#)**11:15 AM-11:30 AM****CE-08. Quantitative and Efficient Characterization of Nanostructures in Fe-Cr-Co Magnets by Small Angle X-ray Scattering**[T. Yamashita](#)*Corporate Research & Development Center, Daido Steel Co., Ltd., Nagoya, Aichi, Japan*[View Digest Text](#)**11:30 AM-11:45 AM****CE-09. First-principles study of enhanced magnetocrystalline anisotropy in transition metal-doped MnBi alloys**[J. Snarski-Adamski](#)¹, Z. Sniadecki², M. Werwinski¹¹*Department of Theory of Nanostructures and Quantum Materials, Institute of Molecular Physics Polish Academy of Sciences, Poznan, Poland*, ²*Institute of Molecular Physics Polish Academy of Sciences, Poznan, Poland*[View Digest Text](#)**11:45 AM-12:00 PM****CE-10. Investigation of Annealing Methods for Fe-N Thin Films**[G. d'Andrea](#)¹, L. Rebohle², P. Rani¹, O. Steuer², I. Dirba¹, U. Kentsch², M. Major¹, S. Zhou², L. Alff¹¹*Materials Science, TU Darmstadt, Darmstadt, Hesse, Germany*, ²*Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany*[View Digest Text](#)**SESSION CF: 2D AND 3D INDIVIDUAL NANOSTRUCTURES AND THEIR ARRAYS**Co-Chair(s): T. Dion, *CSIS/IMR, Tohoku University, Sendai, Miyagi, Japan* and J. Askey, *School of Physics and Astronomy, Cardiff University, Cardiff, United Kingdom*

Wednesday, April 15, 2026

08:30 AM-12:00 PM

Exchange 9

08:30 AM-09:00 AM**CF-01. New Vistas in Artificial Spin Ice**[L. Heyderman](#)*ETH Zurich - Paul Scherrer Institute, Villigen - PSI, Switzerland*[View Digest Text](#)**09:00 AM-09:15 AM****CF-02. Relaxation pathways and emergence of domains in square artificial spin ice**[N. Leo](#)¹, M. Menniti², P. Pedro Villalba-González², M. Pancaldi³, P. Vavassori²¹*Loughborough University, Loughborough, Leicester, United Kingdom*, ²*CIC nanoGUNE, San Sebastian, Spain*, ³*Elettra-Sincrotrone Trieste, Trieste, Italy*[View Digest Text](#)

09:15 AM-09:30 AM

CF-03. Controlled Clocking of Emergent Magnetic Monopoles

D. Bhandari¹, A. Strømberg¹, I. Breivik¹, A. Penty², J. Jensen², M. Foerster³, G. Tufte², E. Folven¹

¹Electronic Systems, Norwegian University of Science and Technology, Trondheim, Norway, ²Computer Science, Norwegian University of Science and Technology, Trondheim, Norway, ³ALBA Synchrotron Light Facility, Barcelona, Spain

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09:30 AM-09:45 AM

CF-04. Mapping the Interaction Field in Artificial Spin Ices

B. Ojha, M. P. Grassi, V. Kapaklis

Department of Physics and Astronomy, Uppsala University, Uppsala, Sweden

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09:45 AM-10:00 AM

CF-05. Ferromagnetic film with locally modified perpendicular magnetic anisotropy as an artificial spin-ice for magnonic applications

S. Kunnath, M. K. Zelent, P. Gruszecki, M. Krawczyk

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

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10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM

CF-06. Manipulating Magnetic Phenomena of Ferromagnetic Nanoislands with Thermal Nano-conversion

O. J. Barker^{1,2}, A. J. Wright^{3,2}, A. Mohammadi-Motlagh², R. Batty², H. Finch², A. Vezzoli², P. S. Keatley⁴, L. O'Brien¹

¹University of Manchester, Liverpool, United Kingdom, ²University of Liverpool, Liverpool, United Kingdom, ³Imperial College London, London, United Kingdom, ⁴University of Exeter, Exeter, United Kingdom

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10:45 AM-11:00 AM

CF-07. Synthetic-Ferrimagnet-Based Chiral Magnonic Resonators for Use with In-Plane and Out-Of-Plane Magnetized YIG Media

K. Fripp, A. Shytov, V. Kruglyak

Physics and Astronomy, University of Exeter, Exeter, United Kingdom

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11:00 AM-11:15 AM

CF-08. Geometry-Driven Magnetic Anisotropy in Arrow-shaped Ni Nanowires

Y. Alvarez¹, V. Vega², A. Asenjo³, O. Chubykalo-Fesenko³, V. M. Prida¹

¹Departamento de Física, Universidad de Oviedo, Oviedo, Asturias, Spain, ²Laboratorio de Membranas Nanoporosas, Edificio de Servicios Científico Técnicos "Severo Ochoa", Universidad de Oviedo, Oviedo, Spain, ³Institute of Materials Science of Madrid (ICMM-CSIC), Madrid, Spain

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11:15 AM-11:30 AM**CF-09. Complex-shaped 3D magnetic nanotubes: fabrication and magnetic properties**

C. Fernandez Gonzalez^{1,2}, P. Morales Fernandez², L. Turnbull^{2,3}, C. Abert^{4,5}, D. Suess^{4,5}, M. Foerster¹, M. Niño¹, P. Nita⁶, A. Mandziak⁷, S. Finizio⁸, N. Bagués¹, E. Pereiro¹, A. Fernández-Pacheco⁹, L. Perez^{10,11}, S. Ruiz Gomez^{1,2}, C. Donnelly^{2,3}

¹ALBA Synchrotron, Cerdanyola del Valles, Barcelona, Spain, ²Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, ³International Institute for Sustainability with Knotted Chiral Meta Matter (WPI-SKCM2) Hiroshima University, Hiroshima, Japan, ⁴Faculty of Physics University of Vienna, Vienna, Austria, ⁵Research Platform MMM Mathematics-Magnetism-Materials University of Vienna, Vienna, Austria, ⁶Faculty of Physics Astronomy and Applied Computer Science Jagiellonian University, Krakow, Poland, ⁷SOLARIS Synchrotron light Sources, Krakow, Poland, ⁸Swiss Light Source Paul Scherrer Institute, Villigen, Switzerland, ⁹Institute of Applied Physics TU Wien, Vienna, Austria, ¹⁰Dept. Física de Materiales Universidad Complutense de Madrid, Madrid, Spain, ¹¹Instituto Madrileño de Estudios Avanzados - IMDEA Nanociencia, Madrid, Spain

[View Digest Text](#)**11:30 AM-11:45 AM****CF-10. Influence of geometry on magnetic behavior in one- and three-dimensional FeNi nanowire arrays**

L. G. Vivas^{1,4}, C. V. Manzano¹, N. Pastor¹, O. Caballero-Calero¹, U. Atxitia², R. Sanz González³, M. Martín-González¹

¹Instituto de Micro y Nanotecnología, IMN-CNM, CSIC (CEI UAM+CSIC), Tres Cantos, Madrid, Spain, ²Instituto de Ciencia de Materiales de Madrid, CSIC, Cantoblanco, 28049 Madrid, Spain, Cantoblanco, Madrid, Spain, ³National Institute for Aerospace Technology (INTA), Space Payloads Department, Torrejón de Ardoz, Madrid, 28850 Spain, Torrejón de Ardoz, Madrid, Spain, ⁴Departamento de Física Aplicada, Facultad de Ciencias, Universidad Autónoma de Madrid, Madrid 28049, Spain., Cantoblanco, Spain

[View Digest Text](#)**11:45 AM-12:00 PM****CF-11. Tunable Magnetic Anisotropy in Co, Co-Pt, and Co-Pd Nanowires: Temperature-Driven Magnetization Easy Axis Reorientation**

M. Arce¹, J. Riva³, P. Bercoff^{1,2}, M. Aguirre², M. Vázquez⁴

¹Facultad de Matemática, Astronomía, Física y Comp., Universidad Nacional de Córdoba, Córdoba, Argentina, ²Instituto de Física Enrique Gaviola, Conicet, Córdoba, Argentina, ³Instituto de Investigaciones en Físico Química de Córdoba, Conicet, Córdoba, Argentina, ⁴Instituto de Ciencia de Materiales de Madrid, CSIC, Spain, Madrid, Spain

[View Digest Text](#)**SESSION CG: SENSORS (NON-RECORDING) I**

Chair(s): S. Yabukami, Tohoku University, Sendai, Miyagi, Japan

Wednesday, April 15, 2026

08:30 AM-12:00 PM

Exchange 10

08:30 AM-08:45 AM**CG-01. High-Sensitivity TMR Sensor with Minimal Hysteresis Through Vortex State Stabilization**

M. Sun^{1,2,3^}, Z. Zhou², M. Liu², W. Chen², Y. Zhao², W. Xi⁴, Q. Leng^{1,2,3}

¹Yangtze Delta Region Academy of Beijing Institute of Technology (Jiaxing), Beijing Institute of Technology, Jiaxing, Zhejiang, China, ²Huairou National Laboratory, Beijing, China, ³State Key Laboratory of Complex-Field Intelligent Sensing, Beijing Institute of Technology, Beijing, China, ⁴Electric Power System (BEIJING) Research Institute Co., Ltd, China Southern Power Grid, Beijing, China

[View Digest Text](#)**08:45 AM-09:00 AM****CG-02. Development of an ultrasensitive skyrmion-based magnetic field sensor**

L. Malucelli¹, M. Caseiro², E. Yildiz¹, J. Rial¹, S. Auffret¹, N. Mollard¹, I. Joumard¹, J. Faure-Vincent¹, C. Baraduc¹, A. Solignac², C. Fermon², M. Pannetier-Lecoœur², H. Béa¹, J. Fischer¹

¹Université Grenoble Alpes, Grenoble, France, ²CNRS, University of Paris-Sud, Paris-Saclay, France

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09:00 AM-09:15 AM

CG-03. Laser-Reprogrammable Vector-Sensitivity in a Magnetic Sensor

F. van Riel*, T. Dankers, B. Koopmans, D. Leitao

Applied Physics, Eindhoven University of Technology, Eindhoven, Noord-Brabant, Netherlands

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09:15 AM-09:30 AM

CG-04. TMR-Based Magnetocardiography With Triaxial Active Magnetic Noise Compensation

Z. Jin^{1,2}, G. Peng^{1,2}, J. Chen^{1,2}, C. Zhang^{1,2}

¹*Aerospace Information Research Institute Chinese Academy of Sciences, Beijing, China*, ²*School of Electronic, Electrical and Communication Engineering, University of Chinese Academy of Sciences, Beijing, China*

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09:30 AM-10:00 AM

CG-05. Innovative spintronic-based solutions for sensor applications

A. Meo

Department of Electrical and Information Engineering, Politecnico di Bari, Bari, Italy

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10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM

CG-06. Physical Modelling of InGaAs/AlGaAs/GaAs 2DEG Structures for Integrated Hall Effect Circuits

C. Walsh¹, M. Sadeghi², M. Missous^{1,2}

¹*University of Manchester, Manchester, Greater Manchester, United Kingdom*, ²*Advanced Hall Sensors Ltd., Manchester, United Kingdom*

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10:45 AM-11:00 AM

CG-07. Low Noise Nanoscale Vortex Sensor sensitive to out-of-plane fields

A. Jha, A. Palomino, S. Auffret, H. Béa, R. Sousa, L. D. Buda-Prejbeanu, O. Fruchart, I. Prejbeanu, B. Dieny

SPINTEC, Grenoble, France

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11:00 AM-11:15 AM

CG-08. Design of an Electromagnetic Tracking System Using Tunnel Magnetoresistive Sensors

K. Hsu, H. Lu, P. Wu, C. Lin

Mechanical Engineering, National Taiwan University, Taipei City, Taiwan

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11:15 AM-11:30 AM

CG-09. Assessing Magnetic Viscosity as a Potential Cause of Very Long-Term Drift in GMI Magnetometers

C. Cordier, J. Gasnier, C. Dolabdjian

Université de Caen Normandie, Caen, France

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11:30 AM-11:45 AM

CG-10. Toward picotesla magnetic field detection using MTJ-based sensors

T. Brun^{1,2}, J. Rial^{1,2}, S. Manceau^{1,2}, L. Risoli¹, C. Ducruet¹, A. Purbawati¹, P. Sabon¹, C. Cavoit², G. Jannet², T. Nakatani³, J. Fischer¹, M. Kretzschmar², C. Baraduc¹, H. Béa^{1,4}

¹CEA-SPINTEC, Grenoble, France, ²LPC2E Université d'Orléans, Orleans, France, ³National Institute for Materials Science (NIMS), Tsukuba, Japan, ⁴Institut Universitaire de France (IUF), Paris, France

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SESSION CH: SOFT MAGNETIC MATERIALS: CRYSTALLINE AND DISORDERED ALLOYS

Chair(s): E. Ferrara, *Innovative Materials Metrology and Life Science, INRIM - Divisione ML, Torino, Italy*

Wednesday, April 15, 2026

08:30 AM-12:00 PM

Exchange 11

08:30 AM-09:00 AM

CH-01. Dimensionality and length-scale control of room-temperature ferromagnetism in CoMnFeNiGa high-entropy alloys

N. Shkodich

Faculty of Physics, University of Duisburg-Essen, Duisburg, Germany

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09:00 AM-09:15 AM

CH-02. 3D Printed Soft Magnetic Actuators: Feedstock and Material Versatility

J. Law¹, J. Revuelta-Losada¹, G. Gloria Guerrero-Muñoz¹, M. Sanchez-Poncela², V. Franco¹

¹Multidisciplinary Unit for Energy Science, University of Seville, Seville, Spain, ²ArcelorMittal Global R&D, Asturias, Spain

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09:15 AM-09:30 AM

CH-03. Effect of Annealing on the Microstructure and the Magnetostrictive Property of Nanogranular Fe-B-N Alloy Thin Film

N. Isogai¹, K. Imamura¹, Y. Kaneda², Y. K. Takahashi³, Y. Nakamura¹, M. Kotsugi⁴, M. Ohtake¹

¹Faculty of Engineering, Yokohama National University, Yokohama, Japan, ²Instrumental Analysis Center, Yokohama National University, Yokohama, Japan, ³Research Center for Magnetic and Spintronic Materials, National Institute for Materials Science (NIMS), Tsukuba, Japan, ⁴Department of Materials Science and Technology, Tokyo University of Science, Tokyo, Japan

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09:30 AM-09:45 AM

CH-04. Effect of Si Content and Temperature on the Magnetic Properties of Fe-Si-Al@Ceramic SMC Materials

J. Fuzer¹, Z. Birčáková², S. Dobák¹, P. Kollár¹, R. Bureš², M. Fáberová², V. Milyutin²

¹Institute of Physics, P.J. Safarik University, Kosice, Slovakia, ²Institute of Materials Research, Slovak Academy of Sciences, Kosice, Slovakia

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09:45 AM-10:00 AM

CH-05. Process impacts on nanocrystalline soft magnetic composite properties

D. Vavra^{1,2}, U. M. Soupremanien¹, O. Tosoni¹, Y. Danlos², N. Fenineche²

¹CEA-LITEN, DTNM, Univ. Grenoble Alpes, Grenoble, France, ²UTBM, ICB, Université Bourgogne Franche-Comté, Belfort, France

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10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM

CH-06. Laser Additive Manufacturing of High-Silicon Steel

M. Murali, E. Hryha, V. Chaudhary

Department of Mechanical Engineering, Chalmers University of Technology, Gothenburg, Sweden

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10:45 AM-11:00 AM

CH-07. Comprehensive Investigation of Magnetic Properties of Fe–Si and Fe-Co Alloy Under Alternating and Rotational Magnetizations

J. Zhou^{1,2}, S. Yue^{1,2}, Z. Dong^{1,2}, J. Li^{1,2}, G. Zhou^{1,2}, Y. Li^{1,2}

¹*State Key Laboratory of Intelligent Power Distribution Equipment and System, Hebei University of Technology, Tianjin, China,*

²*Hebei Key Laboratory of Equipment and Technology Demonstration of Flexible DC Transmission, Hebei University of Technology, Tianjin, China*

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11:00 AM-11:15 AM

CH-08. Surface Energy-induced Selective Grain Growth and Magnetic Domain Evolution in 0.15mm Thin-gauge Grain-Oriented Electrical Steel

J. Ahn¹, K. Lee¹, H. Lee¹, S. Yoo^{2,1}, Y. Ahn², C. Kang², M. Choi³, J. Kim¹

¹*Hanyang University, Aasan, Korea (the Republic of),* ²*Hyundai Steel R&D Center, Dangjin, Korea (the Republic of),* ³*Korea Electric Power Research Institute, Daejeon, Korea (the Republic of)*

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11:15 AM-11:30 AM

CH-09. Coupling of multi-scale investigation methods to study microstructural related magnetic properties and domain structure of electrical steel material

N. Leuning¹, T. Nußbaum², D. Gartner Aurich¹, S. Korte-Kerzel²

¹*Institute of Electrical Machines (IEM), RWTH Aachen University, Aachen, Germany,* ²*Institute for Physical Metallurgy and Materials Physics (IMM), RWTH Aachen University, Aachen, Germany*

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11:30 AM-11:45 AM

CH-10. A Novel Open-Ring Measurement System for Fast and Reproducible Characterization of Weak Soft Magnetic Materials

M. Peer, D. Wöckinger, M. Koll, G. Weissitsch, T. Krainer, G. Bramerdorfer

Institute of Electric Machines and Power Electronics, Johannes Kepler University (JKU), Linz, Austria, Linz, Upper Austria, Austria

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11:45 AM-12:00 PM

CH-11. Epitaxial Metallic Buffer Layers for FeAlSi toward High-Sensitivity Magnetic Sensors Using Superparamagnetic Tunnel Junctions

R. Hirama^{1^}, T. Kubota², T. Nakano^{1,3}, M. Oogane^{1,4}

¹*Department of Applied Physics, Graduate School of Engineering, Tohoku University, Sendai, Miyagi Prefecture, Japan,*

²*Department of Advanced Spintronics Medical Engineering, Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan,*

³*Research Center for Green X-Tech, Green Goals Initiative, Tohoku University, Sendai, Miyagi, Japan,* ⁴*Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Miyagi, Japan*

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SESSION CP: SPECIAL MACHINES I (POSTER SESSION)

Co-Chair(s): E. A. Lomonova, *Electrical Engineering, Technische Universiteit Eindhoven, Eindhoven, Netherlands* and M. Aydin, *Mechatronics Engr., Kocaeli University, Umuttepe, Izmit, Kocaeli, Turkey*

Wednesday, April 15, 2026

09:00 AM-12:00 PM

Exchange Hall

CP-01. A Novel Transverse-Flux Rotary-Linear Machine Based on Flux-Reversal Structure for Industrial Application

H. Zhang¹, G. Ma^{1,2}, Z. Li¹, S. Niu¹

¹*Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, Kowloon, Hong Kong,*

²*Electrical Engineering and Automation, Wuhan University, Wuhan City, Hubei Province, China*

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CP-02. Evaluation on the AC Copper Loss of an Axial Flux Vernier Machine with Different Winding Layouts

W. Zhu¹, Z. Kou², H. Wu²

¹*School of Robotics, Xi'an Jiaotong-Liverpool University, Suzhou, Jiangsu Province, China,*

²*School of Electrical and Electronic Engineering, University of Sheffield, Sheffield, United Kingdom*

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CP-03. Nickel Plating Thickness Measurement on the Rear Side of S45C Steel Plates Using Electromagnetic-Force-Induced Vibration

A. Kano¹, Y. Hosono², Y. Gotoh³

¹*Graduate School of Science and Engineering, Oita University, Oita, Oita, Japan,*

²*Graduate School of Engineering, Oita University, Oita, Oita, Japan,*

³*Faculty of Science and Engineering, Oita University, Oita, Oita, Japan*

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CP-04. Additive Manufacturing of Thin Axial Variable Reluctance Resolvers

P. Huang², C. Liao², P. Liao², T. Chang¹

¹*Department of Vehicle Engineering, National Kaohsiung University of Science and Technology, Kaohsiung, Taiwan,*

²*Department of Mechanical Engineering, National Cheng Kung University, Tainan, Taiwan*

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CP-05. Counter-Torque Reinforcement of Axial-Flux Block-Coil Wind Generators Considering Manufacturability

H. Kim¹, M. Hong⁴, S. Ko¹, C. Kim², W. Kim³

¹*Department of Next Generation Energy System Convergence, Gachon University, Gwangmyeong-si, Gyeonggi-do, Korea (the Republic of),*

²*Electrical Engineering, Wonkwang University, Iksan, Korea (the Republic of),*

³*Electrical Engineering, Gachon University, Seongnam, Korea (the Republic of),*

⁴*Electrical Engineering, Hanyang University, Seoul, Korea (the Republic of)*

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CP-06. Magnetic Modeling and Experimental Validation of a Permanent Magnet Spherical Motor for Satellite Attitude Control

T. Pham², M. Hsieh¹, T. Yen³, C. Hsieh³

¹*Electrical Engineering, National Cheng Kung University, Tainan, Taiwan,*

²*Program on Smart and Sustainable Manufacturing, Academy of Innovative Semiconductor and Sustainable Manufacturing, National Cheng Kung University, Tainan, Taiwan,*

³*Tensor Tech, New Taipei City, Taiwan*

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CP-07. Torque Enhancement of Dual-PM Yokeless-Stator Dual-Rotor Flux-Modulated Motor with Improved Working Harmonics

K. Zhao², Z. Li¹, M. Jiang¹, Q. Wang¹, S. Niu¹, W. Liu¹, K. Chau¹

¹*The Hong Kong Polytechnic University, Kowloon City District, Hong Kong,*

²*School of Professional Education and Executive Development, The Hong Kong Polytechnic University, Yau Tsim Mong District, Hong Kong*

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CP-08. Analysis Methodology of PMSM for Reciprocating Compressor considering the Variable Load Condition

D. Cheo, N. Kim, J. Cho, C. Wang, S. Jeong, S. Jung, S. Jung

Department of Electrical and Computer Engineering, Sungkyunkwan University, Suwon, Korea (the Republic of)

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CP-09. Design of a Coreless DC Motor with Enhanced Output Torque

D. Li¹, F. Zhao¹, J. Yu¹, C. Zhi²

¹School of Robotics and Advanced Manufacture, Harbin Institute of Technology (Shenzhen), Shenzhen, China, ²College of New Materials and New Energies, Shenzhen Technology University, Shenzhen, China

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CP-10. Two-Step Magnetization Strategy for Performance Enhancement in Axial-Flux Permanent Magnet Motors

J. Lee, H. Han, S. Jeon, H. Bae, W. Kim

Gachon University, Seongnam, Korea (the Republic of)

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CP-11. Comparative Analysis and Losses Minimization of Winding Configurations for PCB Stator Axial-Flux Machines

B. Chen¹, F. Zhao¹, J. Yu¹, G. Lyu²

¹School of Robotics and Advanced Manufacture, Harbin Institute of Technology(Shenzhen), Shenzhen, Guangdong Province, China, ²Power China Huadong Engineering Co.,Ltd, Hangzhou, China

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CP-12. A Review of Magnetic Spring Technology

D. Che, J. Bird

Electrical and Computer Engineering, Portland State University, Portland, Oregon, United States

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CP-13. A Novel Hybrid-Transverse-Flux Dual-Electrical-Port Skew-Teeth Machine for Mild Hybrid Vehicles

Z. Huang, M. Jiang, S. Niu, Z. Li, F. Ni

The Hong Kong Polytechnic University, Hong Kong, China

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CP-14. A Cost-Effective Complementary-Rotor Modular-Stator Vernier Reluctance Machine with Toroidal Armature Windings

Z. Li, F. Ni, L. Dai, Z. Huang, S. Niu

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, Hong Kong

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CP-15. Electromagnetic Design of Hybrid Stepper Motors Accounting for Magnetic Saturation Toward Servo-Level Torque Density

M. Hsieh¹, A. T. Huynh², M. D. Le¹, Y. Li¹

¹Electrical Engineering, National Cheng Kung University, Tainan, Taiwan, ²Power Electronics, Machines and Control Research Institute, University of Nottingham, Nottingham, United Kingdom

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CP-16. Demagnetization-Mitigation Characteristics of Flux-Intensifying Spoke-Type IPM Motors with Symmetric and Asymmetric Rotors under High-Harmonic ExcitationM. Hsieh¹, A. T. Huynh², M. D. Le¹, J. Lin¹, P. Huang³, D. Ngo⁴, T. Le⁵¹Electrical Engineering, National Cheng Kung University, Tainan, Taiwan, ²University of Nottingham, Nottingham, United Kingdom, ³Mechanical Engineering, National Cheng Kung University, Tainan, Taiwan, ⁴University of Education and Technology–The University of Danang, Da Nang, Viet Nam, ⁵Ho Chi Minh City University of Technology and Education, Ho Chi Minh City, Viet Nam[View Digest Text](#)**SESSION CQ: PERMANENT MAGNET MACHINES AND MAGNETICALLY GEARED MACHINES III (POSTER SESSION)**Chair(s): B. Daniels, *Electrical Engineering, Eindhoven University of Technology, Eindhoven, Noord-Brabant, Netherlands*

Wednesday, April 15, 2026

09:00 AM-12:00 PM

Exchange Hall

CQ-01. Design and Optimization of a High-Power-Density Six-Phase PMSM for UAV Propulsion Considering Inverter-Induced LossesM. Hsieh¹, A. T. Huynh², P. Li¹, M. D. Le^{1,4}, P. Huang^{3,4}¹Electrical Engineering, National Cheng Kung University, Tainan, Taiwan, ²Power Electronics, Machines and Control Research Institute, Nottingham, United Kingdom, ³Mechanical Engineering, National Cheng Kung University, Tainan, Taiwan, ⁴Electric Motor Technology Research Center, National Cheng Kung University, Tainan, Taiwan[View Digest Text](#)**CQ-02. A Study on Improving LSPM Efficiency and Starting Torque Characteristics through Design Technology for Applying a Reduced Permanent Magnet**S. Song, K. Lee, M. Park, J. Lee*Intelligent Mechatronics Research Center, Korea Electronics Technology Institute, Bucheon-si, Korea (the Republic of)*[View Digest Text](#)**CQ-03. Co-Optimization of Magnetic Gear Ratios and Generator Pole Pairs for a Front-End Speed-Flexible Wind Turbine Drive**P. Lin, X. Liu, X. Zhang, S. Huang*College of Electrical and Information Engineering, Hunan University, Changsha, Hunan, China*[View Digest Text](#)**CQ-04. A Novel Dual-Electrical-Port Magnetic-Geared Compound Machine for Vertical Axis Wind Turbine**Z. Huang, Z. Li, M. Jiang, S. Niu*The Hong Kong Polytechnic University, Hong Kong, China*[View Digest Text](#)**CQ-05. High Magnet Utilization and Reduced Flux Leakage in Bevel Magnetic Gears Using Spoke/V-Type Hybrid Configuration**P. Liao, M. Tsai*Mechanical Engineering, National Cheng Kung University, Tainan, Taiwan*[View Digest Text](#)**CQ-06. Design and Gear Ratio Selection of a Magnetic Geared Motor for Robotic Arm Actuators**C. Kim¹, H. Lee¹, J. Lee², J. Lim¹, C. Park¹¹Department of Railroad Convergence System, Korea National University of Transportation, Uwang-si, Korea (the Republic of),²Department of Railroad Electrical and Information Engineering, Korea National University of Transportation, Uiwang-si, 16106, Korea (the Republic of)[View Digest Text](#)

CQ-07. Winding-Factor-Based Analysis of Pole-Slot Combinations for a Reduction-Gear Magsplit

[T. Ha](#)¹, Y. Kim², E. Park³

¹Aerospace, Chosun University, Gwangju, Korea (the Republic of), ²Electrical Engineering, Chosun University, Gwangju, Korea (the Republic of), ³Engineering for Smart Mobility convergence Systems, Chosun University, Gwangju, Korea (the Republic of)

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CQ-08. Identifying Magsplit Cogging Torque through Frequency Analysis

[B. Byeon](#), Y. Kim, E. Park

Chosun university, Gwangju, Korea (the Republic of)

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CQ-09. Investigation of the Dynamic Characteristics of the Multi-port Dual Flux Modulation Magnetic Geared Machine With Damper Cage

M. Lu^{1,2,3}, X. Liu^{1,2,3}, C. Xia^{1,3}, [X. Zhang](#)^{1,2,3}

¹College of Electrical and Information Engineering, Hainan University, ChangSha, China, ²Greater Bay Area Institute for Innovation, Hunan University, Guangzhou, China, ³State Key Laboratory of Offshore Wind Power Equipment and High-efficient Utilization Wind Energy, Changsha, China

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CQ-10. Design and Comparative Analysis of Multi-Path Stator-Yoke Oil-Channel Configurations for Compact Permanent Magnet Motors Considering Electromagnetic and Thermal Performance

[H. Xue](#), Z. Zhang, Q. Lin, H. Gao

College of Automation Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China

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CQ-11. Quantitative Comparison of Dual-Rotor High Speed Motors with Different Spoke-Type Stator PMs

[Z. Dong](#), M. Jiang, Z. Zhang, Z. Zhang, S. Niu, K. Chau

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

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CQ-12. Novel Axial Flux Permanent Magnet Machine with Flux Modulation Yokeless and Segmented Armature (FM-YASA)

L. Shao¹, K. Wang¹, Z. Zhang¹, [L. Liu](#)², W. Hua², Z. Wu²

¹College of Automation Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, Jiangsu, China, ²School of Electrical Engineering, Southeast University, Nanjing, Jiangsu, China

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CQ-13. Deep Transfer Learning-Assisted Fast Performance Prediction for AFPM considering PM Overhang Effects and Radial Leakage Flux

Y. Lee¹, S. Park², H. Kim¹, [Y. Lee](#)¹, M. Park³

¹Department of Electrical and Communication Systems Engineering, Soonchunhyang University, Asan-si, Chungcheongnam-do, Korea (the Republic of), ²Department of Mechanical, Robotics, and Energy Engineering, Dongguk University, Seoul, Korea (the Republic of), ³Department of Electrical Engineering, Soonchunhyang University, Asan, Chungcheongnam-do, Korea (the Republic of)

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SESSION CR: MAGNETIC NANOSTRUCTURES AND NANOPARTICLES (POSTER SESSION)Chair(s): P. de la Presa, *Complutense University of Madrid, Madrid, Spain*

Wednesday, April 15, 2026

09:00 AM-12:00 PM

Exchange Hall

CR-01. Tuning the Magnetic Dynamics and Hyperfine Interactions in Ferrite-Silica NanocompositesA. Czempik¹, B. Liszka², K. Prusik¹, J. Klimontko¹, E. Partyka-Jankowska³, M. Zajac³, S. Lewinska⁴, N. Randrianantoandro⁵, A. Bajorek¹¹*Faculty of Science and Technology, University of Silesia in Katowice, Chorzów, Poland*, ²*Faculty of Natural Sciences, University of Silesia in Katowice, Sosnowiec, Poland*, ³*SOLARIS National Synchrotron Radiation Centre, Kraków, Poland*, ⁴*The Institute of Physics of the Polish Academy of Sciences, Warszawa, Poland*, ⁵*Institute of Molecules and Materials of Le Mans, Le Mans University, Le Mans, France*[View Digest Text](#)**CR-02. The effect of fabrication imperfections on switching disorder in single-domain nanomagnets**T. M. Dale¹, I. Breivik¹, M. Linnerud², M. Nord², E. Folven¹¹*Electronic Systems, Norwegian University of Science and Technology, Trondheim, Norway*, ²*Physics, Norwegian University of Science and Technology, Trondheim, Norway*[View Digest Text](#)**CR-03. Magnetization Reversal in Elongated Co/Ti/NiFe Nanostructures**M. Garcia Ramón¹, P. R. Ribeiro², M. Mota², C. Redondo¹, K. R. Pirota², R. Morales¹¹*Department of Physical Chemistry, University of the Basque Country -UPV/EHU, Leioa, Spain*, ²*Department of Condensed Matter Physics, University of Campinas, Institute of Physics Glab Wataghin, Campinas, Brazil*[View Digest Text](#)**CR-04. Bilayer Nanocolumnar Films With Tailored Magnetic Properties**M. Garrido-Segovia², A. Nazarov³, R. Álvarez⁴, A. Palmero⁴, E. Navarro², A. Kaidatzis⁵, P. Kabos³, J. García-Martín¹¹*Instituto de Micro y Nanotecnología, CSIC, Tres Cantos, Madrid, Spain*, ²*Universidad Complutense de Madrid, Madrid, Spain*, ³*National Institute of Standards and Technology, Boulder, Colorado, United States*, ⁴*Instituto de Ciencia de Materiales de Sevilla, Seville, Spain*, ⁵*University of Patras, Patras, Greece*[View Digest Text](#)**CR-05. Magnetic and Structural Tuning in Nanocrystalline Ni-Zn Ferrites with Potential Biomedical Applications**M. Georgieva¹, D. Tzankov¹, D. Kovacheva², T. R. Karadimov¹, P. A. Georgiev¹¹*Faculty of Physics, Sofia University "St. Kliment Ohridski", Sofia, Bulgaria*, ²*Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria*[View Digest Text](#)**CR-06. Towards reconfigurable magnonic crystals using artificial spin ice based magnetic multilayer structures**J. Ø. Hestmark¹, I. Breivik¹, A. Strømberg¹, J. Maes², J. Leliaert², B. Van Waeyenberge², E. Folven¹¹*Electronic systems, Norwegian University of Science and Technology, Trondheim, Norway*, ²*Solid State Sciences, Ghent University, Ghent, Belgium*[View Digest Text](#)**CR-07. Directional Artificial Spin Ice**J. Jensen¹, I. Breivik², A. Penty¹, A. Strømberg², H. T. Kaarbø², D. Bhandari², T. M. Dale², M. Sjölander¹, G. Tufte¹, E. Folven²¹*Department of Computer Science, Norwegian University of Science and Technology, Trondheim, Norway*, ²*Department of Electronic Systems, Norwegian University of Science and Technology, Trondheim, Norway*[View Digest Text](#)

CR-08. Influence of inertia on susceptibility of magnetic nanoparticles

[A. Janutka](#)

Wroclaw University of Science and Technology, Wroclaw, Poland

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CR-09. Tuning Exchange Bias in Multiferroic BiFeO₃–PbTiO₃ Thin-Film Heterostructures

[M. F. Jankowski](#)¹, [S. Song](#)², [J. C. Osborne](#)², [C. J. McCluskey](#)³, [M. Gregg](#)³, [B. A. Brereton](#)², [A. Caruana](#)⁴, [C. Kinane](#)⁴, [P. Shepley](#)², [T. A. Moore](#)², [A. J. Bell](#)¹

¹*School of Chemical and Process Engineering, University of Leeds, Leeds, United Kingdom*, ²*School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom*, ³*Centre for Quantum Materials and Technologies, Queen's University Belfast, Belfast, United Kingdom*, ⁴*Rutherford Appleton Laboratory, ISIS, Oxon, United Kingdom*

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CR-10. Cu/Zn-Modified Ferrite Nanoparticles: Magnetic Behaviour, Bactericidal Properties, and Ecotoxicity

[T. R. Karadimov](#)¹, [M. Georgieva](#)¹, [E. Nenova](#)², [I. Ivanova](#)², [P. A. Georgiev](#)¹

¹*Faculty of Physics, Sofia University St. Kliment Ohridski, Sofia, Bulgaria*, ²*Faculty of Biology, Sofia University St Kliment Ohridski, Sofia, Bulgaria*

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CR-11. Thickness Dependence of Anisotropic Magnetoresistance in CoPt Alloy Multilayer Nanowires Fabricated by Dual-Bath Electrodeposition

[R. Kawana](#)¹, [D. Oshima](#)², [M. Saito](#)³, [T. Homma](#)^{3,4}, [T. Kato](#)^{2,5}, [T. Ono](#)⁶, [M. Shima](#)¹, [K. Yamada](#)¹

¹*Gifu University, Gifu-shi, Japan*, ²*Dept. of Electronics, Nagoya University, Nagoya, Japan*, ³*Research Organization for Nano and Life Innovation, Waseda University, Tokyo, Japan*, ⁴*Dept. of Applied Chemistry, Waseda University, Tokyo, Japan*, ⁵*Institute of Materials and Systems for Sustainability, Nagoya University, Nagoya, Japan*, ⁶*Institute for Chemical Research, Kyoto University, Uji, Japan*

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CR-12. Tailoring Magnetic Domains Without Domain Walls in Tb/Co Multilayers Using Ion Bombardment

[D. Kiphart](#), [F. Stobiecki](#), [M. Kowacz](#), [G. Chaves O'Flynn](#), [P. Kuswik](#)

Institute of Molecular Physics Polish Academy of Science, Poznan, Poland

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CR-13. Conformally Coated 3D Magnetic Nanostructured Metamaterials

[A. Roberts](#)¹, [H. Guo](#)², [J. Askey](#)¹, [V. Lanka](#)¹, [A. van den Berg](#)¹, [D. Grundler](#)^{2,3}, [S. Ladak](#)¹

¹*School of Physics and Astronomy, Cardiff University, Cardiff, Cardiff, United Kingdom*, ²*Institute of Materials, EPFL, Lausanne, Switzerland*, ³*Institute of Electrical and Micro Engineering, EPFL, Lausanne, Switzerland*

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CR-14. From Shape-Controlled Synthesis to In Vitro Testing of Magnetic Nano-Octahedra for Hyperthermia

[M. Vassallo](#)¹, [E. S. Olivetti](#)¹, [M. Vicentini](#)¹, [G. Barrera](#)¹, [D. Martella](#)², [M. Malerba](#)¹, [J. Petiti](#)¹, [C. Divieto](#)¹, [P. Tiberto](#)¹, [A. Manzin](#)¹

¹*Istituto Nazionale di Ricerca Metrologica, Torino, Italia, Italy*, ²*University of Firenze, Sesto Fiorentino, Italy*

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CR-15. Characterization and Magnetic Tuning of Gd-Doped Iron Oxide Nanoparticles

[H. Zakaria](#), [A. Szuchmacher Blum](#)

Chemistry, McGill University, Montréal, Quebec, Canada

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CR-16. Green Synthesis of Gd/Gd₂O₃ Nanoparticles for Magnetic Hyperthermia ApplicationsB. Gungordu¹, D. Akkus¹, N. Gunduz Akdogan^{2,3}, O. Akdogan^{1,2}¹Faculty of Engineering and Natural Sciences, Bahcesehir University, Istanbul, Turkey, ²NANOTerial Technology Corporation, Istanbul, Turkey, ³Faculty of Engineering, Piri Reis University, Istanbul, Turkey[View Digest Text](#)**SESSION CS: SPINTRONIC DEVICES FOR MORE EFFICIENT TECHNOLOGIES (POSTER SESSION)**

Chair(s): A. Migliorini, Max Planck Institute of Microstructure Physics, Halle (Saale), Germany

Wednesday, April 15, 2026

09:00 AM-12:00 PM

Exchange Hall

CS-01. Challenges for thin film integration of Ti in perpendicular SOT-MRAMB. Coester, G. Talmelli, V. Nguyen, V. Kateel, R. Carpenter

Imec, Heverlee, Belgium

[View Digest Text](#)**CS-02. All-optical switching in a Co/Gd-based magnetic tunnel junction free layer for photonic integration**T. Zhang¹, C. Scheper¹, M. Rasly¹, Y. Jiao², B. Koopmans¹, D. Leitao¹¹Applied physics, Eindhoven University of Technology, Eindhoven, Netherlands, ²Electrical Engineering, Eindhoven University of Technology, Eindhoven, Netherlands[View Digest Text](#)**CS-03. Spin-Transfer Torque Efficiency in Coupled Synthetic Free Layers: Comparative Study Using Stochastic Magnetic Tunnel Junctions**T. Kinoshita, M. Ohtani, N. Caçoilo, H. Kaneko, S. Kanai, H. Ohno, S. Fukami

Tohoku University, Sendai, Japan

[View Digest Text](#)**CS-04. Reduction of Switching Error Probability in Magnetization Switching Using Spin-Splitter Torque**T. Watanabe², K. Yamada¹, Y. Nakatani²¹Chemistry and Biomolecular, Gifu University, Gifu, Gifu, Japan, ²Univ. of Electro-Communications, Tokyo, Japan[View Digest Text](#)**CS-05. Large spin Hall effect in 300°C annealed BiSb topological insulator and perpendicularly magnetized CoFeB using oxide buffer/seed and interfacial layers on Si/SiO₂ substrates**P. Van Thuan¹, H. Ho¹, W. Li¹, S. Hirayama², Y. Kato², H. N. Pham¹¹Electrical Electronic and Engineering, Institute of Science Tokyo, Koto, Tokyo, Japan, ²Samsung Device Solutions R&D Japan, Samsung Japan Corporation, Yokohama, Kanagawa, Japan[View Digest Text](#)**CS-06. Concurrent Magnetization Reversal in Co/Pt Perpendicular Synthetic Antiferromagnets**I. Rohrmann^{1,2}, A. Ducevic³, G. Masciocchi⁴, K. Prügl⁴, W. Raberg², S. Dounia², D. Suess³, M. Becherer¹, S. Mendisch²¹School of Computation, Information and Technology, Technical University of Munich, Garching, Germany, ²Infineon Technologies AG, Neubiberg, Germany, ³Physics of Functional Materials, University of Vienna, Vienna, Austria, ⁴Infineon Technologies AG, Regensburg, Germany[View Digest Text](#)**CS-07. Beyond Shielding: The Impact of Magnet Positions on MRAM Reliability**A. Talapatra, J. Mueller, S. Soss, A. Zaka

GlobalFoundries, Dresden, Germany

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CS-08. Bulk spin-orbit torque driven spin Hall nano-oscillators via crystallographic engineering in PtBi alloys

U. Shashank¹, A. Kumar^{1,2,3}, T. S. Parvini^{4,5,6}, H. Heyen⁴, L. Zeng⁷, A. B. Yankovich⁷, M. Rajabali⁸, E. Olsson⁷, M. Münzenberg⁴, J. Akerman^{1,2,3}

¹Physics, University of Gothenburg, Göteborg, Västra Götaland, Sweden, ²RIEC, Tohoku University, Sendai, Miyagi, Japan, ³CSIS, Tohoku University, Sendai, Miyagi, Japan, ⁴Institut für Physik, Universität Greifswald, Greifswald, Mecklenburg-Vorpommern, Germany, ⁵Walther-Meißner-Institut, Bayerische Akademie der Wissenschaften, Garching, Germany, ⁶Munich Center for Quantum Science and Technology (MCQST, Munich, Germany), ⁷Physics, Chalmers University of Technology, Gothenburg, Västra Götaland, Sweden, ⁸NanOsc AB, Kista, Stockholm, Stockholm County, Sweden

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CS-09. Tailoring Spin Orbit Torque through Layer Thickness Gradient in Gd/FeCo Multilayer

R. Yabushita¹, D. Oshima¹, T. Kato^{1,2}

¹Electronics, Nagoya University, Komaki, Aichi, Japan, ²Institute of Materials and Systems for Sustainability, Nagoya University, Nagoya, Aichi, Japan

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CS-10. Investigation of Magnetic Immunity of SOT-MRAM with Shielding Package

Z. Zhang¹, X. Fan², D. Xiong², Y. Zhang², S. Lyu², N. Cao², K. Cao², H. Liu², H. Zhang¹, W. Zhao¹

¹Beihang University, Beijing, China, ²Truth Memory Corporation, Beijing, China

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CS-11. Complex dynamics of nano-oscillators with dual vortex free layers mutually coupled via spin-torques

L. Kokkinos^{1,2}, J. Kim^{1,2}

¹Université Paris-Saclay, Gif-sur-Yvette, France, ²Centre de Nanosciences et de Nanotechnologies, Palaiseau, France

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CS-12. Study of coupled spiking magnetic tunnel junctions

A. Courberand¹, A. Jha¹, R. Sousa¹, J. Kim², U. Ebels¹, L. D. Buda-Prejbeanu¹

¹CEA-SPINTEC, Grenoble, France, ²Université Paris Saclay, Paris, France

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CS-13. Angular evolution of magnetoresistance in magnetic tunnel junctions with synthetic antiferromagnets

N. Strelkov, S. Dounia, L. Cuchet, C. Ducruet, J. Childress

Allegro Microsystems, Grenoble, France

[View Digest Text](#)

CS-14. Electric control of magnetic order in low-dimensional magnets for memory and computing devices

C. Yun¹, Z. Luo², J. Yang², Y. Hou¹

¹Department of Materials, Sun Yat-Sen University, Shenzhen, China, ²Peking University, Beijing, China

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SESSION CT: FERROMAGNETIC RESONANCE AND SPIN WAVES I (POSTER SESSION)Chair(s): J. Masell, *Institute of Theoretical Solid State Physics, Karlsruhe Institute of Technology, Karlsruhe, Germany*

Wednesday, April 15, 2026

09:00 AM-12:00 PM

Exchange Hall

CT-01. Magnonic Delay Lines for Time-Domain Reservoir Computing and Recurrent Neural NetworksR. Leenders⁴, H. Tan¹, A. Lutsenko¹, F. Heyroth², K. Fripp⁴, A. Shytov⁴, G. Schmidt², C. Dubs³, S. van Dijken¹, V. Kruglyak⁴¹Aalto University, Aalto, Finland, ²Martin-Luther-University Halle-Wittenberg, Halle, Germany, ³INNOVENT e.V.*Technologieentwicklung, Jena, Germany, ⁴University of Exeter, Exeter, United Kingdom*[View Digest Text](#)**CT-02. Fabry-Perot Cavity formed by Magnonic waveguide using two air holes**R. Kumar, Y. Au, S. Ingvarsson*School of Natural Science and Engineering, Science Institute, University of Iceland, Reykjavik, Iceland*[View Digest Text](#)**CT-03. YSGAG: The Ideal Substrate for YIG in Quantum Magnonics**R. Serha¹, C. Dubs², C. Guguschev³, B. Aichner¹, D. Schmoll¹, J. Schäfer⁴, J. Panda⁵, M. Weiler⁴, P. Pirro⁴, M. Urbánek⁵, A. Chumak¹¹Physics, University of Vienna, Vienna, Vienna, Austria, ²INNOVENT e.V. Technologieentwicklung, Jena, Germany, ³Leibniz-Institut für Kristallzüchtung, Berlin, Germany, ⁴RPTU Kaiserslautern-Landau, Kaiserslautern, Germany, ⁵CEITEC BUT, Brno, Czechia[View Digest Text](#)**CT-05. Tailoring magnetic anisotropy energy with ion irradiation on Fe(110)**G. Gray San Martín^{1,2}, K. Lenz¹, A. Lindner¹, F. Ganss¹, R. Gallardo³, P. Landeros³, R. Hübner¹, J. Fassbender^{1,2}, J. Lindner¹¹Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Saxony, Germany,²Institute of Solid State and Materials Physics, Technische Universität Dresden, Dresden, Saxony, Germany, ³Departamento de Física, Universidad Técnica Federico Santa María, Valparaíso, Valparaíso, Chile[View Digest Text](#)**CT-07. Magnetization Dynamics of CoFeB/NiO/CoFeB Trilayers**R. Mehta¹, P. K. Pal², A. Barman², S. Saha¹¹Department of Physics, Ashoka University, Rajiv Gandhi Education City, Sonapat, Haryana, India, ²S. N. Bose National Centre for Basic Sciences, Kolkata, India[View Digest Text](#)**CT-09. Cryogenic Spin-Wave Transport in YIG Films on YSGG**J. Abrão, D. Weltens, R. Mansell, S. van Dijken, L. Flajsman*Applied Physics, Aalto University, Espoo, Finland*[View Digest Text](#)**CT-10. Polarization analysis of micro-focused Brillouin light scattering signal**K. Szulc^{1,2}, m. Guo³, O. Wojewoda^{1,4}, H. Wang⁵, D. Pavelka¹, J. Klima¹, J. Krcma^{1,6}, X. Han⁵, Q. Wang³, M. Urbánek^{1,6}¹CEITEC BUT, Brno University of Technology, Brno, Czechia, ²Institute of Molecular Physics, Polish Academy of Sciences, Poznan, Poland,³Institute for Quantum Science and Engineering, Huazhong University of Science & Technology, Wuhan, China,⁴Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States,⁵Institute of Physics, Chinese Academy of Sciences, Beijing, China, ⁶Institute of Physical Engineering, Brno University of Technology, Brno, Czechia[View Digest Text](#)

CT-11. Programmable Spin-Wave Transport via Magnetic-State Transitions in CoFeB Nanodisk Arrays on YIG films

J. Hyun¹, K. Szulc^{5,2,4}, M. K. Zelent², L. Flajsman¹, M. Krawczyk², P. Gruszecki², A. Gopakumar³, C. Dubs³, S. van Dijken¹
¹Applied Physics, Aalto University, Espoo, Uusimaa, Finland, ²Faculty of Physics and Astronomy, ISQI, Poznan, Poland, ³INNOVENT e.V. Technologieentwicklung, Jena, Germany, ⁴CEITEC, Brno, Czechia, ⁵Polish Academy of Sciences, Institute of Molecular Physics, Poznan, Poland

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CT-12. Hydrogen Gas Detection Using Palladium and Palladium Oxide Coated Iron Oxide Magnetic Nano-networks

Z. Z. Khan

Physics, The University of Western Australia, Perth, Western Australia, Australia

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CT-13. Study on Static and Dynamic Magnetic Properties of Epitaxial Fe_{100-x}Ge_x Thin Films with Various Ge Compositions (x)

Y. Jiang¹, A. Semisalova², S. Ajia¹, S. Muroga¹, M. Farle², Y. Endo^{1,3}

¹Department of Electrical Engineering, Tohoku University, Sendai, Miyagi, Japan, ²Faculty of Physics, University of Duisburg-Essen, Duisburg, Germany, ³Center for Science and Innovation in Spintronics (CSIS), Tohoku University, Sendai, Miyagi Prefecture, Japan

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CT-14. Tunable spin-wave dynamics in nanoscale bicomponent magnetic fractals

S. Saha, R. Mehta

Department of Physics, Ashoka University, Baden, Switzerland

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CT-15. Substrate-Dependent Magnetic Damping Constant in Weyl Semimetal Co₂MnGa Thin Films

N. Zahrin¹, S. Manna², S. Sahara¹, Y. Kurokawa¹, T. Kuschel², M. Kläui², H. Yuasa¹

¹Graduate School of Information Science and Electrical Engineering, Kyushu University, Fukuoka, Japan, ²Institute of Physics, Johannes Gutenberg University Mainz, Mainz, Germany

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SESSION CU: NEUROMORPHIC, PROBABILISTIC, AND QUANTUM COMPUTING II (POSTER SESSION)

Chair(s): R. Tomasello, Department of Electrical and Information Engineering, Politecnico di Bari, Bari, Italy

Wednesday, April 15, 2026

09:00 AM-12:00 PM

Exchange Hall

CU-01. Probabilistic Computing Using Magnetic Tunneling Junctions for Traveling Salesman Problem

C. Wan¹, R. Zhang¹, S. He², T. Kämpfe³, X. Han¹

¹Magnetism, Institute of Physics, Chinese Academy of Sciences, Beijing, China, ²Zhejiang Hikstor Technology Co. LTD., Hangzhou, Zhejiang, China, ³Fraunhofer IPMS, Dresden, Germany

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CU-02. Spatial Reservoir Computing Based on Spin-Orbit Torque Driven Skyrmion Motion

S. Bonino, R. Guedas Garcia, S. Auffret, E. Yildiz, G. Gaudin, O. Boulle

CEA-SPINTEC, Grenoble, France, France

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CU-03. Quantum spintronic Engine: experiments and first theory

M. Bowen

IPCMS, Strasbourg, France

[View Digest Text](#)

CU-04. Encoding information on the excited quantum state of a molecular spin chain

M. Bowen

IPCMS, Strasbourg, France

[View Digest Text](#)

CU-05. Differentiable Modelling of Spintronic Devices Using Denoising Diffusion Implicit Models

J. Griffiths¹, R. Yagan², C. Swindells², T. Hayward², M. O. Ellis¹

¹*School of Computer Science, University of Sheffield, Sheffield, United Kingdom*, ²*School of Chemical, Materials and Biological Engineering, University of Sheffield, Sheffield, United Kingdom*

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CU-06. Skyrmionic Synapses for Artificial Neural Network Hardware

D. Burrow¹, W. Griggs¹, W. Bouckaert², N. Reyren², V. Pavlidis¹, C. Moutafis¹

¹*University of Manchester, Manchester, United Kingdom*, ²*Laboratoire Albert Fert, CNRS, Thales, Universite Paris-Saclay, Palaiseau, France*

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CU-07. Trainable Neuromorphic Spintronic Hardware Via Analog Finite-Difference Gradient Method

C. Pereira^{4,1}, A. Jenkins¹, E. Raimondo², M. Carpentieri³, E. Iranmehr¹, L. C. Benetti¹, S. Roy¹, R. Ferreira¹, J. Ventura⁴, G. Finocchio^{2,5}, D. Rodrigues³

¹*International Iberian Nanotechnology Laboratory, Porto, Portugal*, ²*Istituto Nazionale di Geofisica e Vulcanologia, Rome, Italy*, ³*Electrical and Information Engineering, Politecnico di Bari, Bari, Italy*, ⁴*IFIMUP, Department of Physics and Astronomy, Faculty of Sciences of University of Porto, Porto, Portugal*, ⁵*Department of Mathematical and Computer Sciences, Physical Sciences and Earth Sciences, University of Messina, Messina, Italy*

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CU-08. MRAM based CiM Accelerators for Backpropagation-Free Training

H. Nehete¹, S. Soni¹, A. Monga¹, T. Bollu¹, B. Raman²

¹*Department of Electronics and Communication Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India*, ²*Department of Computer Science and Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India*

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CU-09. Skyrmions for non-conventional computing

R. Guedas Garcia¹, K. Bairagi¹, M. Panzeri², S. Bonino¹, S. Auffret¹, E. Albisetti², G. Gaudin¹, O. Boulle¹

¹*Spintec, Grenoble, Iser, France*, ²*Politecnico di Milano, Milano, Italy*

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MAGNETICS SOCIETY ANNUAL MEETING

Wednesday, April 15, 2026

12:15 PM-01:45 PM

Exchange 2&3

SESSION DA: ACCELERATING INNOVATION: THE INDUSTRY-ACADEMIA SYNERGY IN MAGNETIC-BASED CRITICAL TECHNOLOGIES (PART B)Chair(s): F. Ciubotaru, *imec, Leuven, Belgium*

Wednesday, April 15, 2026

02:00 PM-05:30 PM

Exchange Auditorium

02:00 PM-02:30 PM**DA-01. Current and future requirements for coating technologies in key magnetic applications**B. Ocker, J. Langer, J. Wrona*Business Unit Semiconductor, Singulus Technologies AG, Kahl am Main, Bavaria, Germany*[View Digest Text](#)**02:30 PM-03:00 PM****DA-02. Experience in CMOS design for Spintronics**L. Engels, F. Saint-Preux, O. Leman, G. Cogniard*IC Alps, Saint Martin d'Heres, France*[View Digest Text](#)**03:00 PM-03:30 PM****DA-03. Magnetic Immunity in STT-MRAM A Rational Approach to a Manageable Challenge**J. Mueller*ULP CMOS, GlobalFoundries, Dresden, Germany*[View Digest Text](#)

03:30 PM-04:00 PM

Break

04:00 PM-04:30 PM**DA-04. Magnetic Metrology for MTJ Based Devices Fabrication: From Process Excursion Detection to Device Performance Correlation**A. Cagliani¹, A. Titova², B. Satywali¹, J. Mueller², J. Engelmann³, F. Krause², I. Altendorf², D. Sanchez Hazen², M. Weisheit², P. Sadeghi¹, B. Guralnik¹, T. Shapoval³, M. F. Hansen¹¹CAPRES, KLA, Kgs. Lyngby, Denmark, ²GlobalFoundries, Dresden, Germany, ³KLA, Dresden, Germany[View Digest Text](#)**04:30 PM-05:00 PM****Round Table Discussion**

SESSION DB: ARTIFICIAL SPIN ICE: NEW PATHWAYS IN STRONGLY-INTERACTING NANOMAGNETIC NETWORKSChair(s): L. Heyderman, *ETH Zurich - Paul Scherrer Institute, Villigen - PSI, Switzerland*

Wednesday, April 15, 2026

02:00 PM-05:30 PM

Charter 1

02:00 PM-02:30 PM**DB-01. Tripod Nanomagnets in Artificial Spin Ice**N. H. Strandqvist, R. Zhang, G. Macauley, P. Schiffer*Physics, Princeton University, Plainsboro Township, New Jersey, United States*[View Digest Text](#)**02:30 PM-03:00 PM****DB-02. Reconfigurable magnon band structure in YIG/ASI heterostructure**T. Dion^{1,2}, A. J. Wright³, T. Zheng³, T. Hioki⁴, T. Seki^{1,2}, H. Kurebayashi^{5,6,1}, J. Gartside³¹*Centre for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan*, ²*Institute for Materials Research, Tohoku University, Sendai, Japan*, ³*Physics, Imperial College London, London, United Kingdom*, ⁴*Applied Physics, The University of Tokyo, Tokyo, Japan*, ⁵*London Centre for Nanotechnology, University College London, London, United Kingdom*, ⁶*Department of Electronic and Electrical Engineering, University College London, London, United Kingdom*[View Digest Text](#)**03:00 PM-03:30 PM****DB-03. High-resolution two-photon lithography for 3D printing nanomagnets**J. Askey¹, M. Hunt², L. Payne¹, A. van den Berg¹, A. Hejazi³, I. Pitsios⁴, W. Langbein¹, S. Ladak¹¹*School of Physics and Astronomy, Cardiff University, Cardiff, United Kingdom*, ²*Huntleigh Healthcare Ltd, Cardiff, United Kingdom*, ³*Faculty of Science and Arts, Tabah University, Medina, Saudi Arabia*, ⁴*VitreLab GmbH, Vienna, Austria*[View Digest Text](#)**03:30 PM-04:00 PM**

Break

04:00 PM-04:30 PM**DB-04. Magnetic Creatures and Where to Find Them**A. Penty*Computer Science, Norwegian University of Science and Technology, Trondheim, Norway*[View Digest Text](#)**04:30 PM-05:00 PM****DB-05. Coupled nanomagnetic systems for unconventional computing**L. Wang, Z. Luo*School of Physics, Peking University, Beijing, Beijing, China*[View Digest Text](#)**05:00 PM-05:30 PM****DB-06. Direct Imaging of Emergent Magnetic Monopole Fields in Three-Dimensional Artificial Spin Ice**S. Ladak*School of Physics and Astronomy, Cardiff University, Cardiff, United Kingdom*[View Digest Text](#)

SESSION DC: SPIN-ORBIT AND ORBITAL TORQUES IIChair(s): A. Hoffmann, *University of Illinois Urbana-Champaign, Urbana, Illinois, United States*

Wednesday, April 15, 2026

02:00 PM-05:30 PM

Charter 2

02:00 PM-02:30 PM**DC-01. Orbitronics with orbital magnets and all-orbital devices**S. Krishna¹, C. Schmitt¹, O. Ledesma¹, M. Zeer², E. Galindez Ruales¹, T. Kikkawa³, H. Arisawa³, T. Denneulin⁴, A. Kovács⁴, F. Kronast⁵, D. Go¹, L. Pourovskii⁶, R. E. Dunin-Borkowski⁴, T. Kuschel¹, M. Lezaić², J. Sinova¹, E. Saitoh³, G. Jakob¹, O. Gomonay¹, Y. Mokrousov¹, M. Kläui^{1,7}¹*Institute for Physics, Johannes Gutenberg University Mainz, Mainz, Germany*, ²*Peter Grünberg Institut and Institute for Advanced Simulation, Forschungszentrum Jülich and JARA, Jülich, Germany*, ³*Department of Applied Physics, The University of Tokyo, Tokyo, Japan*, ⁴*Ernst Ruska-Centre for Microscopy and Spectroscopy with Electrons, Forschungszentrum Jülich, Jülich, Germany*, ⁵*Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany*, ⁶*CPHT, CNRS, École polytechnique, Institut Polytechnique de Paris, Palaiseau, France*, ⁷*Center for Quantum Spintronics and Department of Physics, NTNU, Trondheim, Norway*[View Digest Text](#)**02:30 PM-02:45 PM****DC-02. Characteristics of spin-orbit torque switching in smooth transition region**Z. Kong, X. Zhang, [Z. Zhu](#)*ShanghaiTech University, Shanghai, China*[View Digest Text](#)**02:45 PM-03:00 PM****DC-03. Enhanced spin-orbit torque efficiency via graphite interlayer in epitaxial Co/Pt multilayers**[A. Guio](#)¹, A. Gudín¹, G. Orero², H. Madathil², A. Pezo³, J. Rojas-Sanchez⁴, F. Ajejas¹, S. Velez², P. Perna¹¹*Instituto Madrileño de Estudios Avanzados Nanociencia (IMDEA Nanociencia), Madrid, Spain*, ²*Dept. Física de la Materia Condensada and Condensed Matter Physics Center (IFIMAC), Universidad Autónoma de Madrid, Madrid, Spain*, ³*Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France*, ⁴*Université de Lorraine, CNRS, IJL, Nancy, France*[View Digest Text](#)**03:00 PM-03:15 PM****DC-04. Giant Orbital Torque-driven Picosecond Switching in Magnetic Tunnel Junctions**[Y. Yao](#)¹, D. Zhu¹, C. Xiao¹, X. Ning^{1,3}, W. Cai¹, X. Guo¹, Z. Guo¹, K. Yang¹, D. Xiong², Z. Yan¹, S. Lu¹, H. Zhang², S. Cheng¹, R. Xu¹, D. Ma¹, C. Wang¹, Z. Wang¹, Z. Boyu¹, X. Zheng¹, K. Cao¹, H. Liu², A. Manchon³, W. Zhao¹¹*School of Integrated Circuit Science and Engineering, Beihang University, Beijing, Beijing, China*, ²*Truth Memory Corporation, Beijing, China*, ³*CINaM, Aix-Marseille Univ, Marseille, France*[View Digest Text](#)**03:15 PM-03:30 PM****DC-05. Modulation of spin-orbit torque of Pt/Co heterostructures by Zr alloying into Pt layers**[J. Lee](#)¹, J. Lee², T. T. Nguyen³, C. Kim⁴, S. Kim³, Y. Kim²¹*Department of Semiconductor Systems Engineering, Korea University, Seoul, Korea (the Republic of)*, ²*Department of Materials Science and Engineering, Korea University, Seoul, Korea (the Republic of)*, ³*Department of Physics and Energy Harvest Storage Research Center, University of Ulsan, Ulsan, Korea (the Republic of)*, ⁴*Quantum Technology Institute, Korea Research Institute of Standards and Science, Daejeon, Korea (the Republic of)*[View Digest Text](#)

03:30 PM-04:00 PM

Break

04:00 PM-04:30 PM

DC-06. Spin-Orbit Torque Operation in Synthetic Antiferromagnetic DevicesT. Seki^{1,2,3}¹Institute for Materials Research, Tohoku University, Sendai, Japan, ²Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan, ³International Center for Synchrotron Radiation Innovation Smart, Tohoku University, Sendai, Japan[View Digest Text](#)

04:30 PM-04:45 PM

DC-07. Efficient Spin-Orbit Torques Magnetization Switching Using Chromium Orbital PolarizationR. T. Victor¹, G. Lan¹, P. A. Dainone², A. Pezo¹, Y. Xu¹, S. Collin¹, F. Godel¹, Y. Lu², N. Reyren¹, H. Jaffrès¹, J. George¹¹Laboratoire Albert Fert, Palaiseau, France, ²Institut Jean Lamour, Nancy, France[View Digest Text](#)

04:45 PM-05:00 PM

DC-08. Ultra-Low Switching Current Density and Robust Thermal Stability in NiW-Based SOT DevicesC. Wei, Y. Li, C. Lai

National Tsing Hua University, Hsinchu, Taiwan

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05:00 PM-05:15 PM

DC-09. Investigation of the heavy-metal layer in the orbital-to-spin current conversionG. Cipi, S. Rohart

Laboratoire de Physique des Solides, Orsay Cedex, France

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05:15 PM-05:30 PM

DC-10. Phenomenology of Orbital Torque in Metallic BilayersX. Ning^{1,2,3}, H. Jaffrès⁴, W. Zhao^{1,3}, A. Manchon²¹National Key Laboratory of Spintronics, Hangzhou International Innovation Institute, Beihang University, Hangzhou, China, ²Aix-Marseille University, CINaM, CNRS, Marseille, France, ³Fert Beijing Institute, School of Integrated Circuit Science and Engineering, Beihang University, Beijing, China, ⁴Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France[View Digest Text](#)**SESSION DD: ALTERNATIVE COMPUTING ARCHITECTURES WITH SPINTRONIC DEVICES**

Chair(s): A. Chaurasiya, Physics, University of Gothenburg, Gothenburg, Sweden

Wednesday, April 15, 2026

02:00 PM-05:30 PM

Charter 3

02:00 PM-02:30 PM

DD-01. Entropy-Assisted Nanosecond Stochastic Operation In Perpendicular Superparamagnetic Tunnel JunctionsL. Desplat¹, L. Soumah¹, N. Phan¹, A. Sidi El Valli¹, A. Madhavan^{2,3}, F. Disdier¹, S. Auffret¹, R. Sousa¹, U. Ebels¹, M. Stiles², P. Talatchian¹¹SPINTEC, Univ. Grenoble Alpes, CEA, CNRS, Grenoble INP, Grenoble, France, ²Physical Measurement Laboratory, National Institute of Standards and Technology, Gaithersburg, Maryland, United States, ³Institute for Research in Electronics and Applied Physics, University of Maryland, College Park, Maryland, United States[View Digest Text](#)

02:30 PM-03:00 PM

DD-02. Nanoscale Control and Electrical Detection of Chiral Domain WallsA. Migliorini¹, J. Jeon¹, J. Yoon¹, L. Fischer¹, J. Jeong², S. Parkin¹¹Max Planck Institute of Microstructure Physics, Halle (Saale), Germany, ²Samsung Semiconductor, San Jose, California, United States[View Digest Text](#)

03:00 PM-03:30 PM

DD-03. Let the Physics Do the Math: Spintronic oscillators as Physical Combinatorial SolversV. H. González^{1,2}, A. Litvinenko², A. Kumar^{2,3}, R. Khymyn², J. Akerman^{2,3}¹Applied Mathematics and Theoretical Physics, University of Cambridge, Cambridge, United Kingdom, ²Physics, University of Gothenburg, Gothenburg, Sweden, ³Center for Science and Innovation in Spintronics, RIEC, Tohoku University, Sendai, Japan[View Digest Text](#)

03:30 PM-04:00 PM

Break

04:00 PM-04:15 PM

DD-04. On-the-fly All-Electrical Readout of a Single-Skyrmion-Counting Sensor Validated by Optical DetectionG. Beneke¹, K. Leutner¹, N. Vijayan^{1,2}, F. Kammerbauer¹, D. Tran¹, S. Krishnia¹, J. Guettinger², A. Satz², R. Frömter¹, M. Kläui¹¹Institute of Physics, Johannes Gutenberg-Universität Mainz, Ober-Olm, Rheinland-Pfalz, Germany, ²Infinion Technologies Austria AG, Villach, Austria[View Digest Text](#)

04:15 PM-04:30 PM

DD-05. Moving magnetic domain walls with sound aloneA. Rivelles^{1,2}, R. Yanes³, L. Torres³, M. Abuín^{1,2}, J. Grandal¹, M. Sepehr¹, G. Orero⁴, R. Guedas Garcia⁵, L. Fernández-García⁶, R. Izquierdo^{1,7}, M. C. Maicas¹, M. Sanz¹, J. Pedrós^{1,7}, F. Calle^{1,7}, S. Ruiz Gómez⁸, W. Khaliq⁸, M. Angel⁸, S. Velez⁴, M. Foerster⁸, L. Lopez-Diaz³, J. Prieto¹¹Instituto de Sistemas Optoelectrónicos y Microtecnología (ISOM), Universidad Politécnica de Madrid (UPM), Madrid, Spain, ²Escuela Técnica Superior de Ingeniería y Diseño Industrial, Universidad Politécnica de Madrid, Madrid, Spain, ³Applied Physics Department, Universidad de Salamanca, Salamanca, Salamanca, Spain, ⁴Spintronics and Nanodevices Laboratory, Departamento de Física de la Materia Condensada and Condensed Matter Physics Center (IFIMAC), Universidad Autónoma de Madrid, Madrid, Madrid, Spain, ⁵SPINTEC, Université Grenoble Alpes, CNRS, CEA, Grenoble, France, ⁶Departamento de Física de Materiales, Universidad Complutense de Madrid, Madrid, Madrid, Spain, ⁷Departamento de Ingeniería Electrónica, ETSI Telecomunicación, Universidad Politécnica de Madrid, Madrid, Madrid, Spain, ⁸ALBA Synchrotron Light Facility, Barcelona, Spain[View Digest Text](#)

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DD-06. Chiral Interlayer Coupling Induced Analog SOT Switching and Neuromorphic Functionality in Synthetic FerrimagnetsS. Li, W. Yang, X. L. Lin

Hangzhou International Innovation Institute, Hang Zhou Shi, Zhejiang, China

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DD-07. Orbital-to-Spin Conversion Integration in 3-terminal MTJs with Vertical Non-Local Control of the MagnetizationC. C. Capriata¹, M. Biagi¹, C. Bouchard², L. Hutin², B. Viala², R. Sousa¹, K. Garello¹¹IRIG, CEA-SPINTEC, Grenoble, France, ²CEA-Leti, Grenoble, France[View Digest Text](#)

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DD-08. Self-consistent simulation of current-induced switching in nanopillars with perpendicular shape anisotropy

N. Boscolo Meneguolo^{1,2}, M. Fattouhi¹, O. Fruchart^{1,3}, J. Toussaint^{4,3}, L. D. Buda-Prejbeanu^{1,4}, I. Prejbeanu¹, D. Gusakova¹
¹CEA-SPINTEC, Grenoble, France, ²Université Grenoble Alpes, Grenoble, France, ³Institut Néel CNRS, Grenoble, France, ⁴Grenoble INP, Grenoble, France

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DD-09. Controllable mutual synchronization in perpendicular magnetic anisotropy nanogap spin Hall nano-oscillators

M. Kang^{1**}, J. Choi², J. Akerman², B. Park¹

¹Materials Science and Engineering, KAIST, Hwaseong-si, Korea (the Republic of), ²Department of Physics, University of Gothenburg, Gothenburg, Sweden

[View Digest Text](#)**SESSION DE: ADVANCED MODELING AND DESIGN OF LINEAR MACHINES AND MAGNETIC SUSPENSION SYSTEMS**

Co-Chair(s): H. Hamzeshbahmani, *Durham University, Durham, United Kingdom* and C. Yan, *Xi'an Jiaotong University, Xi'an, China*

Wednesday, April 15, 2026

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02:00 PM-02:15 PM

DE-01. A Comparative Study of Flux Reversal Motors with Different Permanent Magnet Arrangements

S. Tsunoda^{*}, K. Nakamura

Engineering, Tohoku University, Sendai, Japan

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DE-02. Electromagnetic Performance Analysis of an Axially Active–Radially Passive Magnetically Levitated Motor

C. Wu¹, Z. Deng², X. Quan¹

¹College of Automation Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, Jiangsu, China, ²College of Automation Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, Jiangsu, China

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DE-04. A novel Switched Halbach quick response Solenoid Valve for Aerospace Propulsion Applications

M. Sairam, V. Ravikumar, K. Madhusudhan Reddy, R. Chari

Electrical, Research Centre Imarat, Badangpet, Hyderabad, India

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DE-05. Design of a High-PM-Utilization Tubular Transverse Flux Dual-PM Linear Motor with π -Shaped Core for Long Stroke Application

Z. Li¹, K. Zhao², M. Jiang¹, S. Niu¹, W. Liu¹, K. Chau¹

¹The Hong Kong Polytechnic University, Hong Kong, Hong Kong, ²School of Professional Education and Executive Development (SPEED), The Hong Kong Polytechnic University, Hong Kong, Hong Kong

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DE-06. The importance of a vertical magnetic field in novel magnetic levitation

J. M. Hermansen, F. L. Durhuus, A. R. Insinga, R. Bjørk

Energy Conversion and Storage, Technical University of Denmark, Kongens Lyngby, Denmark

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DE-07. A Data-Driven Magnetic Field Model for Halbach Arrays of the Magnetically Levitated Planar Motor with Variable Harmonic CoefficientsC. Wang¹, G. Cao^{1,2}, H. Hu^{1,2}, S. Huang^{1,2}¹Guangdong Key Laboratory of Electromagnetic Control and Intelligent Robots, Shenzhen University, Shenzhen, Guangdong, China, ²National Key Laboratory of Green and Long-Life Road Engineering in Extreme Environment (Shenzhen), Shenzhen University, Shenzhen, Guangdong, China[View Digest Text](#)

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DE-08. A Fast Method for Electromagnetic Force Prediction in Coreless Permanent-magnet Synchronous Linear Motors Considering Magnet Manufacturing TolerancesS. Yu¹, H. Zhang^{1,2}¹The School of Electrical Engineering & Automation, Harbin Institute of Technology, Harbin, China, ²Suzhou Research Institute of HIT, Suzhou, China[View Digest Text](#)

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DE-10. Modeling and Full-Scale Characterization of an Electrodynamic Suspension System for Lane-SwitchingO. Kleikemper¹, M. Pakštys², S. Rink¹, F. Holzapfel³, A. Tonoli²¹TUM Hyperloop, Technical University of Munich, Ottobrunn, Germany, ²Department of Mechanical and Aerospace Engineering, Politecnico di Torino, Turin, Italy, ³Institute of Flight System Dynamics, Technical University of Munich, Garching, Germany[View Digest Text](#)

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DE-11. Flux Analysis and Thrust Density Enhancement of Double-side Yokeless Multi-tooth PM Linear Motor with Dual PM Configuration for Long Stroke ApplicationZ. Li¹, Y. Luo¹, A. Chau², S. Niu¹¹The Hong Kong Polytechnic University, Hong Kong, Hong Kong, ²School of Energy and Environment, City University of Hong Kong, Hong Kong, Hong Kong[View Digest Text](#)**SESSION DF: VORTICES AND DOMAIN WALLS**Chair(s): R. Rama-Eiroa, *School of Physics and Astronomy, The University of Edinburgh, Edinburgh, United Kingdom*

Wednesday, April 15, 2026

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Exchange 9

02:00 PM-02:15 PM

DF-01. Micromagnetic theory of Floquet magnon states in magnetic vorticesJ. Kim¹, C. Heins^{2,3}, L. Körber^{2,3,4}, T. Devolder¹, J. Mentink⁴, A. Kákay², J. Fassbender^{2,3}, K. Schultheiss², H. Schultheiss²¹C2N, CNRS / Université Paris-Saclay, Palaiseau, France, ²Institut für Ionenstrahlphysik und Materialforschung, Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany, ³Fakultät Physik, Technische Universität Dresden, Dresden, Germany, ⁴Institute for Molecules and Materials, Radboud Universiteit, Nijmegen, Netherlands[View Digest Text](#)

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DF-02. Hysteretic excitation of self-induced Floquet magnons in vortex-state magnetic tunnel junctionsG. Philippe¹, R. Lopes Seeger¹, J. KIM², T. Devolder², A. Jenkins³, L. C. Benetti³, A. Schulman³, R. Ferreira³¹Université Paris-Saclay, Palaiseau, France, ²CNRS, Palaiseau, France, ³International Iberian Nanotechnology Laboratory, Braga, Portugal[View Digest Text](#)

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DF-03. Real-time characterization of vortex core reversal under nonlinear gyrotropic motionM. Massouras¹, A. Jenkins², L. C. Benetti², A. Schulman², R. Ferreira², H. Schultheiss³, K. Schultheiss³, J. Kim¹, T. Devolder¹¹Université Paris-Saclay, CNRS, Palaiseau, France, ²International Iberian Nanotechnology Laboratory, Braga, Portugal, ³Helmholtz-Center Dresden-Rossendorf, Dresden, Germany[View Digest Text](#)

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DF-04. Breaking magnetic vortex symmetry for resonant reconfiguration of radiofrequency synaptic chains

A. Jenkins, L. C. Benetti, M. Steblii, R. Ferreira

Spintronics, International Iberian Nanotechnology Laboratory, Braga, Portugal

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DF-05. Pulse-driven Domain Dynamics in Perpendicularly Magnetized Topological Insulator / Magnetic Multilayer HeterostructuresB. A. Brereton^{1,2,3}, S. Hait¹, A. Yagmur¹, F. Maccherozzi³, C. Kinane², S. Conroy⁴, S. Sasaki¹, T. A. Moore¹, S. S. Dhesi³, D. Backes³, S. Langridge², C. Marrows¹¹School of Physics and Astronomy, University of Leeds, Leeds, West Yorkshire, United Kingdom, ²ISIS Neutron and Muon Source, STFC Rutherford Appleton Laboratory, Didcot, Oxfordshire, United Kingdom, ³Diamond Light Source Ltd, Didcot, Oxfordshire, United Kingdom, ⁴Department of Materials, Imperial College London, London, United Kingdom[View Digest Text](#)

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DF-06. Imprinting Electrically Switchable Scalar Spin Chirality by Anisotropic Strain in a Kagome AntiferromagnetD. Paul^{1^}, S. Yadav¹, S. Gupta¹, B. Patra¹, N. Kulkarni¹, D. Mondal¹, K. Gavankar¹, S. Sahu², B. Satpati³, B. Singh¹, O. Benton⁴, S. Chatterjee¹¹Department of Condensed Matter Physics and Material Science, Tata Institute of Fundamental Research, Colaba, Maharashtra, India, ²School of Physical Sciences, National Institute of Science Education and Research, Bhubaneswar, India, ³Surface Physics & Material Science Division, Saha Institute of Nuclear Physics, Kolkata, India, ⁴School of Physical and Chemical Sciences, Queen Mary University of London, London, United Kingdom[View Digest Text](#)

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DF-07. Deterministic magnetic nanodomain switching via engineered anisotropy landscapes

G. Simons, R. van Haren, B. Koopmans

Applied Physics and Science Education, Eindhoven University of Technology, Eindhoven, Netherlands

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DF-08. Crossover from Universal Depinning to Free Domain-Wall Dynamics in Thin Iron Garnet Films

V. Jeudy¹, D. Gouéré³, N. Beaulieu², S. Hussain³, R. Diaz Pardo⁴, A. Thiaville¹, J. Sampaio¹, J. George³, A. Anane³, J. Ben Youssef²

¹Université Paris-Sud, Orsay, France, ²Université Brest, Brest, France, ³CNRS, University of Paris-Sud, Palaiseau, France, ⁴UNAM, Mexico, Mexico

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DF-09. Dynamics of 3D domain walls in magnetic cylindrical nanowires under thermal gradients.

E. Saugar, O. Chubykalo-Fesenko

Instituto de Ciencia de Materiales de Madrid, CSIC, Madrid, Spain

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DF-10. Delayed Walker Breakdown in Cylindrical Nanowires with Vortex Magnetization

L. Gómez-Cruz^{1,2}, L. Álvaro-Gómez¹, C. Fernandez Gonzalez³, G. Curci², S. Ruiz Gomez³, L. Aballe³, E. Pereiro³, R. Belkhou⁴, J. Toussaint⁵, D. Guskova², V. Raposo⁶, E. Martinez Vecino⁶, A. Masseboeuf², O. Fruchart², L. Perez⁷

¹Departamento de Física de Materiales, Universidad Complutense de Madrid, Madrid, Spain, ²Université Grenoble Alpes, CNRS, CEA, SPINTEC, Grenoble, France, ³ALBA Synchrotron, CELLS, Cerdanyola del Vallès, Barcelona, Spain, ⁴SOLEIL Synchrotron, Saint Aubin, France, ⁵Université Grenoble Alpes, CNRS, Institut Néel, Grenoble, France, ⁶Departamento de Física Aplicada, Universidad de Salamanca, Salamanca, Spain, ⁷IMDEA Nanociencia, Madrid, Spain

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DF-11. Sequential Magnetization Reversal Processes in Dual-Modulated Co-Ni Cylindrical Nanowires

Y. Alvarez¹, M. Mendez¹, V. Vega², A. Adawy^{1,3}, V. M. Prida¹

¹Departamento de Física, Universidad de Oviedo, Oviedo, Asturias, Spain, ²Laboratorio de Membranas Nanoporosas, SCTs "Severo Ochoa", Universidad de Oviedo, Oviedo, Spain, ³Unidad de Microscopía Electrónica y Microsonda, SCTs "Severo Ochoa", Universidad de Oviedo, Oviedo, Spain

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DF-12. Direct observation of vortex and Néel-type skyrmionic textures in 3D curved magnets under zero-field conditions

T. Almeida¹, K. Fallon¹, D. A. Dugato², W. Jalil², A. Kovács³, D. Cooper⁴, R. E. Dunin-Borkowski³, S. McVitie¹, F. Garcia²

¹School of Physics and Astronomy, University of Glasgow, Glasgow, United Kingdom, ²Centro Brasileiro de Pesquisas Físicas, Rio de Janeiro, Brazil, ³Ernst Ruska-Centre, Forschungszentrum Jülich, Jülich, Germany, ⁴Univ Grenoble Alpes, CEA, LETI, Grenoble, France

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SESSION DG: ELECTRONIC STRUCTURE AND SPIN DYNAMICSChair(s): J. Wiebe, *University of Hamburg, Hamburg, Germany*

Wednesday, April 15, 2026

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Exchange 10

02:00 PM-02:30 PM**DG-01. Detection of magnons in a transmission electron microscope**D. Kepaptsoglou^{1,2}, J. Á. Castellanos-Reyes³, A. Kerrigan², J. A. Do Nascimento², P. Zeiger³, K. El hajraoui^{1,2}, J. Idrobo^{4,5}, B. Mendis⁶, A. Bergman³, V. K. Lazarov², J. Ruzs³, Q. Ramasse^{1,7}¹*SuperSTEM Laboratory, Daresbury, United Kingdom*, ²*University of York, Heslington, United Kingdom*, ³*Department of Physics and Astronomy, Uppsala University, Uppsala, Sweden*, ⁴*University of Washington, Seattle, Washington, United States*, ⁵*Pacific Northwest National Laboratory, Richland, Washington, United States*, ⁶*Durham University, Durham, United Kingdom*, ⁷*University of Leeds, Leeds, United Kingdom*[View Digest Text](#)**02:30 PM-02:45 PM****DG-02. Spin Waves in Mn₂Au and CuMnAs**J. Jackson¹, S. Ruta², L. Petit¹, J. Hirst², T. Ostler³¹*Scientific Computing, Science and Technology Facilities Council, Warrington, United Kingdom*, ²*Sheffield Hallam University, Sheffield, United Kingdom*, ³*University of Hull, Hull, United Kingdom*[View Digest Text](#)**02:45 PM-03:00 PM****DG-03. Relativistic Magnetic Interactions from Non-Orthogonal Basis Sets**D. T. Pozsár^{1,3}, G. Martínez-Carracedo^{2,3}, L. Oroszlany^{1,4}, A. García-Fuente^{2,3}, B. Nyári^{5,6}, L. Udvardi⁶, L. Szunyogh^{5,6}, J. Ferrer^{3,2}¹*Department of Complex Systems, Eötvös Loránd University, Budapest, Hungary*, ²*Centro de Investigación en Nanomateriales y Nanotecnología, Universidad de Oviedo-CSIC, El Entegro, Spain*, ³*Departamento de Física, Universidad de Oviedo, Oviedo, Spain*, ⁴*Wigner Research Centre for Physics, Budapest, Hungary*, ⁵*HUN-REN-BME Condensed Matter Research Group, Budapest University of Technology and Economics, Budapest, Hungary*, ⁶*Department of Theoretical Physics, Budapest University of Technology and Economics, Budapest, Hungary*[View Digest Text](#)**03:00 PM-03:15 PM****DG-04. Exchange splitting at surfaces: a new paradigm for spin-polarization in antiferromagnets**W. A. Schaarman, S. F. Weber*Condensed Matter and Materials Theory, Chalmers University of Technology, Göteborg, Sweden*[View Digest Text](#)**03:15 PM-03:30 PM****DG-05. New Theoretical Insights into the Magnetism of SmCo₅**A. B. Shick*Condensed Matter Theory, Institute of Physics, the Czech Academy of Sciences, Prague, Czechia*[View Digest Text](#)**03:30 PM-04:00 PM**

Break

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DG-06. A Lightweight Graph-to-Vector Framework for Efficient Magnetic Property Prediction

S. Singh¹, A. Sharma², A. Kashyap¹

¹School of Physical Sciences, Indian Institute of Technology, Mandi, Mandi, Himachal Pradesh, India, ²School of Computing and Electrical Engineering, Indian Institute of Technology Mandi, Mandi, India

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DG-07. Field-Angle-Dependent Magnetotropic Susceptibility of Monoclinic α -RuCl₃

H. Nasir¹, Y. Kim², K. Modic¹

¹Physics, Institute of Science and Technology Austria, Klosterneuburg, Austria, ²Department of Physics, University of Toronto, Toronto, Ontario, Canada

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DG-08. Altermagnetism in RuO₂ films: variant control and detection of magnetic moments by X-ray magnetic linear dichroism

J. Okabayashi¹, Z. Wen², Y. Miura³, H. Sukegawa², S. Mitani²

¹The University of Tokyo, Bunkyo-ku, Tokyo, Japan, ²NIMS, Tsukuba, Japan, ³Kyoto Institute of Technology, Kyoto, Japan

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DG-09. Strain-induced modifications of the Co electronic structure in La₂CoMnO₆ single crystals revealed by XAS and RIXS

G. A. Amorim^{1,2}, M. Boldrin^{1,3}, T. Rocha¹, E. M. Bittar⁴, E. Granado², L. Bufaiçal³, T. J. Mori¹

¹Brazilian Synchrotron Light Laboratory, Brazilian Center for Research in Energy and Materials, Campinas, São Paulo, Brazil,

²Instituto de Física Gleb Wataghin, Universidade Estadual de Campinas, Campinas, Brazil, ³Instituto de Física, Universidade Federal de Goiás, Goiânia, Brazil, ⁴Centro Brasileiro de Pesquisas Físicas, Rio de Janeiro, Brazil

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DG-10. Quantum Griffiths-like anomalies and non-universal critical phenomena in the double perovskite Er₂NiMnO₆

D. Mazumdar

Physics, Arya Vidyapeeth College (Autonomous), Guwahati, Assam, India

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DG-11. From continuum excitations to sharp magnons via transverse magnetic field in the spin-1/2 Ising-like triangular lattice antiferromagnet Na₂BaCo(PO₄)₂

L. Woodland^{1,2}, R. Okuma^{3,2}, R. Stewart¹, C. Balz¹, R. Coldea²

¹ISIS Neutron and Muon Source, Rutherford Appleton Laboratory, Didcot, United Kingdom, ²Physics Department, University of Oxford, Oxford, United Kingdom, ³Institute for Solid State Physics, The University of Tokyo, Chiba, Japan

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SESSION DH: FERROMAGNETIC RESONANCE AND SPIN WAVES IIChair(s): K. Levchenko, *Faculty of Physics, University of Vienna, Vienna, Austria*

Wednesday, April 15, 2026

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Exchange 11

02:00 PM-02:30 PM**DH-01. Magnon Momentum Microscopy for the Study of Nonlinear Spin-Wave Dynamics below 100-nm Wavelength**S. Wittrock^{1,2}, C. Klose¹, S. Perna^{3,2}, K. Baumgaertl⁴, A. Mucchietto⁴, M. Scheider¹, J. Fuchs¹, V. Deinhart¹, T. Karaman², D. Grundler^{4,5}, S. Eisebitt^{1,6}, B. Pfau¹, D. Schick¹¹Max-Born-Institut für Nichtlineare Optik & Kurzzeitspektroskopie, Berlin, Germany, ²Helmholtz-Zentrum Berlin für Materialien & Energie GmbH, Berlin, Germany, ³Dipartimento di Ingegneria Elettrica, Università di Napoli "Federico II", Napoli, Italy, ⁴Institute of Materials, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland, ⁵Institute of Electrical & Micro Engineering, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland, ⁶Institut für Physik & Astronomie, Technische Universität Berlin, Berlin, Germany[View Digest Text](#)**02:30 PM-02:45 PM****DH-02. Ultra-long-living magnons in the quantum limit**A. Chumak¹, R. Serha¹, K. H. McAllister², F. Majcen¹, S. Knauer¹, T. Reimann³, C. Dubs³, G. Melkov⁴, A. A. Serga⁵, V. Tyberkevych⁶, D. A. Bozhko²¹Faculty of Physics, University of Vienna, Vienna, Austria, ²University of Colorado Colorado Springs, Colorado Springs, Colorado, United States, ³INNOVENT e.V. Technologieentwicklung, Jena, Germany, ⁴Taras Shevchenko National University of Kyiv, Kyiv, Ukraine, ⁵Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau, Kaiserslautern, Germany, ⁶Oakland University, Rochester, Michigan, United States[View Digest Text](#)**02:45 PM-03:00 PM****DH-03. Perpendicular magnetization in sputtered YIG thin films for spin wave propagation and spin-orbit torque switching**Y. Shiota¹, R. Hisatomi¹, S. Karube¹, D. Kan¹, Y. Shimakawa¹, T. Ono^{1,2}¹Institute for Chemical Research, Kyoto University, Uji, Kyoto, Japan, ²International Center for Synchrotron Radiation Innovation Smart, Tohoku University, Sendai, Japan[View Digest Text](#)**03:00 PM-03:15 PM****DH-04. Magneto-resistive detection of spin-waves**Q. Rossi¹, D. Stoeffler¹, G. de Loubens², H. Merbouche², H. Majjad¹, I. Ngouagnia¹, A. Solignac², M. Bailleu¹¹CNRS / Institut de Physique et Chimie des Matériaux de Strasbourg, Université de Strasbourg, Strasbourg, France, ²SPEC, CEA Saclay, Gif sur Yvette, France[View Digest Text](#)**03:15 PM-03:30 PM****DH-05. Magnon mediated spin pumping in coupled ferrimagnetic garnets heterostructure**K. S. Rathore¹, A. Swain¹, P. Gupta¹, A. Mishra¹, J. Lim², Y. Lee³, M. Ramanathan³, A. Hoffmann², S. Bedanta^{1,4}¹Physics, National Institute of Science Education and Research, Bhubaneswar, Odisha, India, ²Department of Materials Science and Engineering and Materials Research Laboratory, University of Illinois Urbana-Champaign, Urbana, Illinois, United States, ³Department of Physics, National University of Singapore, Singapore, Singapore, ⁴Center for interdisciplinary Sciences, National Institute of Science Education and Research, Jatni, Odisha, India[View Digest Text](#)

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DH-07. Magnetic configurations of few-layer CrCl₃

Q. Fenoy¹, S. Berciaud¹, A. Glappe²

¹IPCMS, Université de Strasbourg, Strasbourg, France, ²IPCMS, CNRS, Strasbourg, France

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DH-08. Quantifying magnetic exchange with atomistic simulation, magnetometry and BLS.

C. Swindells^{2,3}, W. K. Peria¹, J. Barker⁴, J. J. Wissler¹, M. Schneider¹, M. Pufall¹, H. T. Nembach¹

¹NIST, Boulder, Colorado, United States, ²NIST, Associate, Boulder, Colorado, United States, ³Electrical Engineering, UC Denver, Denver, Colorado, United States, ⁴School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom

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DH-09. Time-resolved splitting of magnons into vortex gyration and Floquet spin waves

T. Devolder¹, R. Lopes Seeger¹, C. Heins², A. Jenkins³, L. C. Benetti³, A. Schulman³, R. Ferreira³, G. Philippe¹, C. Chappert¹, H. Schultheiss², K. Schultheiss²

¹CNRS and Université Paris-Saclay, Palaiseau, France, ²Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany, ³International Iberian Nanotechnology Laboratory, Braga, Portugal

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DH-10. Reconfigurable Magnonic Crystals Formed by Stripe-Domain Textures in Perpendicularly Magnetized BiYIG

G. Doddi¹, P. Che¹, S. Manton¹, N. Reyren¹, D. Gouéré¹, T. Srivastava², S. Salama¹, R. Lebrun¹, V. Cros¹, A. Anane¹

¹Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France, ²Centre de Nanosciences et de Nanotechnologies, CNRS, Université Paris-Saclay, Palaiseau, France

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DH-11. High-momentum nonlinear magnons under parametric pumping detected by Mie-enhanced Brillouin Light Scattering

D. Pavelka¹, O. Wojewoda², J. Holobradek¹, J. Panda¹, J. Feilhauer³, M. Urbánek¹

¹CEITEC BUT, Brno University of Technology, Brno, Czechia, ²Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States, ³Institute of Electrical Engineering, Slovak Academy of Sciences, Bratislava, Slovakia

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SESSION DP: ADVANCED ANALYSIS AND DESIGN OF PERMANENT MAGNET MOTORS (POSTER SESSION)

Chair(s): A. T. Huynh, *Power Electronics and Machines Centre, Faculty of Engineering, University of Nottingham, Nottingham, United Kingdom*

Wednesday, April 15, 2026

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Exchange Hall

DP-01. Comparative Analysis of Field-Weakening Performance for Axial Modular Flux Switching and Flux Reversal Permanent Magnet Machines

Y. Wang¹, P. Su¹, X. Zhao², Y. Li¹

¹Hebei University of Technology School of Electrical Engineering, Tianjin, China, ²University of York, York, United Kingdom

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DP-02. A Study on Geometrical optimization for the startup of a single-phase transverse flux motor

H. Bae¹, S. Lee², Y. Lee², D. Choi², W. Kim¹

¹Electrical Engineering, Gachon University, Seongnam, Korea (the Republic of), ²Next Generation Smart Energy System Convergence, Gachon University, Seongnam, Korea (the Republic of)

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DP-03. Surrogate-Based Multi-Objective Optimization of Dual-Rotor Axial Flux Permanent Magnet Motors Considering Irreversible Thermal Demagnetization

S. Park, H. Yang, S. Jung

Sungkyunkwan University, Suwon-si, Gyeonggi-do, Korea (the Republic of)

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DP-04. Topology Optimization of AFPM Motor Rotor Core for Weight Reduction and Prevention of Irreversible Demagnetization

S. Choi¹, D. Choi², H. Han², J. Kim², W. Kim¹

¹Department of Electrical Engineering, Gachon University, Seongnam, Korea (the Republic of), ²Next Generation Smart Energy System Convergence, Gachon University, Seongnam, Korea (the Republic of)

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DP-05. Modeling and Prediction of Post-Assembly Magnetization Characteristics in IPMSM Based on Nonlinear MEC Analysis

Y. Choi¹, J. Yang¹, S. Lee¹, J. Jang¹, K. Shin², J. Choi¹

¹Electrical Engineering, Chung Nam National University, Daejeon, Korea (the Republic of), ²Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

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DP-07. A Design Methodology to Reduce Energy Consumption of a Motor for Reciprocating Compressor

D. Cheo, N. Kim, J. Cho, C. Wang, S. Jeong, S. Jung, S. Jung

Department of Electrical and Computer Engineering, Sungkyunkwan University, Suwon, Korea (the Republic of)

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DP-10. Electrical Loading Enhancement and Flux-Path-Guided Rotor Core Partitioning in a PCB-Based AFM for Robotic Joints

H. Han¹, J. Lee², J. Moon², S. Jeon¹, W. Kim³

¹Next Generation Smart Energy System Convergence, Ph.D. program, Seongnam, Korea (the Republic of), ²Next Generation Smart Energy System Convergence, Master's program, Seongnam, Korea (the Republic of), ³Electrical Engineering, Associate Professor, Seongnam, Korea (the Republic of)

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DP-11. A Study on the Miniaturized Design of a 40W Motor Based on PCB Winding

N. Jo, S. Ko, H. Kim, J. Moon, W. Kim

Gachon University, Seongnam-si, Korea (the Republic of)[View Digest Text](#)**DP-13. A Study on the AFPM Design Process Considering Formula-Based FEA Stiffness Analysis**Y. Lim¹, Y. Lee², S. Lee², J. Moon¹, W. Kim¹¹*Electric Engineering, Gachon University, Seongnam-si, Gyeonggi-do, Korea (the Republic of)*, ²*Department of Next Generation Energy System Convergence, Gachon University, Seongnam, Korea (the Republic of)*[View Digest Text](#)**DP-13. Magnetic Network Modeling and Analysis of EE Core Based on Vector Magnetic Circuit Theory.**

X. Ma, W. Qin, H. Wang, M. Cheng, C. Li, Z. Wang

Southeast University, Nanjing, Jiangsu, China[View Digest Text](#)**SESSION DQ: SIMULATION AND DESIGN OPTIMIZATION OF ELECTROMAGNETIC SYSTEMS I (POSTER SESSION)**Chair(s): S. Niu, *Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Kowloon, Hong Kong*

Wednesday, April 15, 2026

02:30 PM-05:30 PM

Exchange Hall

DQ-01. Enhanced Coreless Current Sensing Using TMR: FEM Analysis and Comparison with Hall SensorsR. Saoudi¹, D. Coutellier¹, Y. Nourrisson¹, A. Kostadinova², J. Veron²¹*LEM TECH France, Allée des Parcs, Saint Priest, France*, ²*LEM International SA, Meyrin, Switzerland*[View Digest Text](#)**DQ-02. Research on Pixel Model Based High-Precision Thermal Network for Axial Flux Permanent Magnet Motors**B. Ma¹, Z. Yi¹, J. Xing¹, S. Huang¹, S. Wang², G. Lei³, J. Zhu⁴¹*College of Electrical and Information Engineering, Hunan University, Changsha, China*, ²*National Key Laboratory of Multi-perch Vehicle Driving Systems, Beijing Institute of Technology, Beijing, China*, ³*School of Electrical and Data Engineering, University of Technology Sydney, Sydney, New South Wales, Australia*, ⁴*University of Sydney, School of Electrical and Information Engineering, Sydney, New South Wales, Australia*[View Digest Text](#)**DQ-03. SSA-Based Optimization and Experimental Validation of Bi-Planar Compensation Coils**

Y. Gao, M. Shi, S. Yuan, L. Zhang, C. Lian, Y. Huang, Z. Wang

Beihang University, Beijing, Beijing, China[View Digest Text](#)**DQ-04. An Automatic Optimal Structure Generation Technique for Synchronous Reluctance Motors**B. Ma¹, S. Liu¹, Y. Li¹, J. Zheng¹, S. Wang², G. Lei³, J. Zhu⁴¹*Hunan University, Changsha, Hunan, China*, ²*Beijing Institute of Technology, Beijing, China*, ³*University of Technology Sydney, Sydney, New South Wales, Australia*, ⁴*The University of Sydney, Sydney, New South Wales, Australia*[View Digest Text](#)**DQ-05. Hybrid Parameter–Topology Optimization of Asymmetric IPM Motors Considering Magnetic Axis Correction**

Y. Otomo, R. Ogasawara, T. Abe

Graduate School of Integrated Science and Technology, Nagasaki University, Nagasaki, Japan[View Digest Text](#)

DQ-06. Reverse Design Method for Cylindrical Uniform Magnetic Field Coils with Harmonic Expansion and Regularization
Y. Liu^{1,2}, X. Xu^{1,2}, Z. Zhao^{1,2}, X. Zhang^{1,2}, C. Han^{1,2}

¹School of Instrumentation and Optoelectronic Engineering, Beihang University, Beijing, China, ²Institute of Large-scale Scientific Facility and Centre for Zero Magnetic Field Science, Beihang University, Beijing, China

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DQ-07. Dynamic Computation base on Moore–Penrose pseudoinverse in Multi-Channel Magnetic Compensation Systems

Z. Wang, M. Shi, F. Yang, Y. Huang, C. Lian, Y. Li, R. Cheng, Y. Gao, H. Wang

Beihang University, Beijing, China

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DQ-08. Advanced Modeling Method applying Spatial Permeability by Zone to improve Magnetic Signature of Warship

H. Jeong, Y. Kim, D. Lee, C. Kim, H. Oh, H. Oh, B. Jeong, J. Choi

Hawhaoocean, Seoul, Korea (the Republic of)

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DQ-09. Fast Parameter Extraction of an Extended Jiles–Atherton Model Using a Physics-Constrained CNN–KAN Framework

B. Zhang, M. Pfof

Chair of Energy Conversion, Technical University Dortmund, Dortmund, Germany

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DQ-10. Transition-Metal-Induced Uniaxial Anisotropy in Fe₃Y From Ab Initio to Micromagnetics

S. Pile⁵, M. Hasan¹, A. Kovacs⁵, R. M. Vieira^{1,2}, A. Vishina¹, S. J. Holt³, M. Lang³, A. Petrocchi³, H. Fangohr^{3,4}, H. C. Herper¹, T. Schrefl⁵

¹Uppsala University, Uppsala, Sweden, ²Luleå University of Technology, Luleå, Sweden, ³Max Planck Institute for the Structure and Dynamics of Matter, Hamburg, Germany, ⁴University of Southampton, Southampton, United Kingdom, ⁵University for Continuing Education Krems, Wiener Neustadt, Austria

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DQ-11. Matrix-Based Modeling of Hollow-Cup Motors with Extreme Air-Gaps for Axial-Flow Blood Pumps considering Axial Non-Uniformity

R. Wang, X. Huang, Z. Chen, A. Situ, K. Zhu, Y. Ma

Zhejiang University, Hangzhou, China

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DQ-12. Magnetic Field Reconstruction and Internal Current Inversion of GIS via Physics-Informed Deep Operator Network

X. Guan, X. Chen, H. Zhang, C. Xu

Fuzhou University, Fuzhou, China

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DQ-13. Cross-Domain Multi-Objective Optimization of VGRMGs Using Preference-Decoupled Domain-Adversarial Learning

X. Zhang, X. Liu, P. Lin, S. Huang

College of Electrical and Information Engineering, Hunan University, Changsha, Hunan, China

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DQ-14. Intra-particle Eddy Current Losses in Powder Cores: Comparison between Analytical Models and Experimental Data

M. Cotti, J. Biela

ETH Zurich, Zurich, Switzerland

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DQ-15. A New Axial-Flux Dual-Rotor Variable Reluctance ResolverM. Onsal², M. Aydin¹¹*Mechatronics Engr., Kocaeli University, Kocaeli, Kocaeli, Turkey*, ²*MDS Motor Ltd., Kocaeli, Kocaeli, Turkey*[View Digest Text](#)**DQ-16. Magnetic rotational permeability for mechanical stress evaluation: Simulation**R. Sabariego³, Y. Tene Deffo^{4,1}, T. Uchimoto², B. Ducharne^{1,2}¹*Institut National des Sciences Appliquees de Lyon, Villeurbanne, France*, ²*Tohoku University, Sendai, Miyagi, Japan*, ³*KU Leuven, Leuven, Belgium*, ⁴*University of Buea, Buea, Cameroon*[View Digest Text](#)**SESSION DR: SOFT MAGNETIC AMORPHOUS AND NANOCRYSTALLINE MATERIALS (POSTER SESSION)**Co-Chair(s): A. Zhukov, *IKERBASQUE, Basque Foundation for Science, San Sebastian, Spain* and R. Varga, *RVmagnetics a.s.,**Kosice, Slovakia*

Wednesday, April 15, 2026

02:30 PM-05:30 PM

Exchange Hall

DR-01. Magnetic loss prediction in nanocrystalline core from LCR-meter characterization and viscoelastic modelB. Ducharne^{1,2}, Y. Tomita³¹*Institut National des Sciences Appliquees de Lyon, Villeurbanne, France*, ²*Tohoku University, Sendai, Miyagi, Japan*, ³*Daido steel, Nagoya, Japan*[View Digest Text](#)**DR-02. Stress Annealing and Recovery Effects in Long Co-Fe-Si-B Amorphous Magnetic Wires**H. Chiriac, S. Corodeanu, M. Lostun, L. Mazilu, S. Savin, T. A. Ovari, N. Lupu*National Institute of Research and Development for Technical Physics, Iasi, Romania*[View Digest Text](#)**DR-03. Nanocrystalline Wires with Reversible Magnetic Anisotropy for Tunable Sensing**N. Lupu, S. Corodeanu, M. Lostun, H. Chiriac, T. A. Ovari*National Institute of Research and Development for Technical Physics, Iasi, Romania*[View Digest Text](#)**DR-04. Grading of Magnetic Anisotropy and Engineering of Domain Wall Dynamics in Fe-rich Microwires by Stress-annealing**V. Zhukova^{1,2,3}, P. Corte-Leon^{1,2}, J. Blanco^{2,3}, A. Zhukov^{2,3,4}¹*Polímeros y Materiales Avanzados: Física, Química y Tecnología, UPV/EHU, San Sebastian, Gipuzkoa, Spain*, ²*Dept. Appl. Phys., University of Basque Country, EIG, UPV/EHU, San Sebastian, Spain*, ³*EHU Quantum Center, University of the Basque Country, UPV/EHU, San Sebastian, Spain*, ⁴*IKERBASQUE, Basque Foundation for Science, Bilbao, Spain*[View Digest Text](#)**DR-06. A passive sensor for rotating elements based on magnetic amorphous glass-coated microwires**M. Kozachok¹, L. Fecova⁴, K. Richter^{1,2,3}¹*Faculty of electronics and informatics, Technical University of Kosice, Kosice, Slovakia*, ²*Cassovia New Industry Cluster (CNIC), Kosice, Slovakia*, ³*Slovak Academy of Sciences, Kosice, Slovakia*, ⁴*Pavol Jozef Safarik University, Kosice, Slovakia*[View Digest Text](#)**DR-07. Exploring the Structural and Magnetic Effects of Nb Addition in Nanocrystalline NANOMET-Based Alloys**H. Yim, H. Lee*Department of Applied Physics, Sookmyung University, Seoul, Korea (the Republic of)*[View Digest Text](#)

DR-08. Influence of processing routes on the soft magnetic behaviour of amorphous Fe-Si-B-Nb alloy with Ni addition

P. Sharangi¹, U. Rajput¹, G. Barrera¹, A. Ghavimi², R. Busch², L. Thorsson³, A. Tarasov⁴, M. Rodriguez⁵, S. Sadanand⁵, M. Perez Prado⁵, I. Gallino⁴, E. Ferrara¹, P. Tiberto¹

¹INRIM, Torino, Italy, ²Institute of Metallic Materials, Saarland University, Saarbrücken, Germany, ³Hereaus AMLOY Technologies GmbH, Karlstein, Germany, ⁴Department of Materials Science and Engineering, Metallic Materials, Technical University of Berlin, Berlin, Germany, ⁵IMDEA Materials Institute, Getafe, Madrid, Spain

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DR-09. Study on Structural and Magnetic Properties of Cobalt Substituted Permalloy Amorphous Nanocrystalline Ribbons

E. Cho^{1,2}, K. Lee^{1,3}, J. Ahn¹, H. Lee¹, J. Kim¹

¹Materials Science and Chemical Engineering, Hanyang University, Ansan, Korea (the Republic of), ²Korea Testing Laboratory, Seoul, Korea (the Republic of), ³Convergence Institute of ERICA, Hanyang University, Ansan, Korea (the Republic of)

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DR-10. Fe-Si-B-(Nb,Ni,Cr) Amorphous Ribbons as a Precursor to Laser Powder Bed Fusion of Soft Magnetic Components

U. Rajput^{1,2}, P. Sharangi², E. Ferrara², G. Barrera², A. Ghavimi³, R. Busch³, I. Gallino⁴, P. Tiberto²

¹Department of Energy "Galileo Ferraris", Politecnico di Torino, Torino, Italy, ²Metrology of Innovative Materials and Life Sciences, Istituto Nazionale di Ricerca Metrologica, TORINO, Turin, Italy, ³Chair of Metallic Materials, Campus C6.3, Saarland University, Saarbrücken, Saarlandes, Germany, ⁴Chair of Metallic Materials, Ernst-Reuter-Platz 1, Technical University of Berlin, Berlin, Berlin, Germany

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DR-11. Influence of Interparticle Electrical Insulators on the Magnetic Permeability of NiFeMo-based Soft Magnetic Composites

M. Tkáč^{1,2}, P. Kollár², D. Oleksakova³, R. Maciaszek², M. Fáberová¹, R. Bureš¹

¹Institute of Materials Research of Slovak Academy of Sciences, Košice, Slovakia, ²Institute of Physics, Pavol Jozef Šafárik University in Košice, Košice, Slovakia, ³Institute of Manufacturing Management, Technical University of Košice, Prešov, Slovakia

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DR-12. Magnetic Property Analysis and Loss Modeling of Amorphous Alloy and Ultra-thin Silicon Steel Considering Temperature Effects

J. Li¹, Y. Dou², J. Zhou¹, S. Yue¹, Y. Li^{1,3}, Y. Li¹

¹State Key Laboratory of Intelligent Power Distribution Equipment and System, Hebei University of Technology, Tianjin, China, ²University of Illinois at Urbana-Champaign Institute, Zhejiang University, Haining, China, ³School of Engineering, Cardiff University, London, United Kingdom

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DR-14. Nanocrystalline stator core with small saturation magnetostriction

Z. Tang¹, C. Freemantle², M. Ganbold², R. Parsons², N. Ito³, K. Suzuki¹

¹Materials Science and Engineering, Monash University, Clayton, Victoria, Australia, ²Kite Magnetics, Notting Hill, Victoria, Australia, ³CBMM Europe B.V., Amsterdam, Netherlands

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DR-15. RF-Sputtered CoFeB Films with Switch-Like Magnetic Response for Implantable Medical Devices

L. Mazon Maldonado¹, R. Parvizi², H. Heidari²

¹College of Science and Engineering, University of Glasgow, Glasgow, Scotland, United Kingdom, ²Engineering Electronics & Nano Eng, University of Glasgow, Glasgow, United Kingdom

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DR-16. Computable Knowledge Discovery in Soft Magnetic Materials via Large Language Model Driven Literature Meta-Analysis

R. Ying¹, Y. Liang², T. Taniguchi¹, Y. Song¹, S. Okamoto^{1,3,4}

¹IMRAM, Tohoku University, Sendai, Miyagi, Japan, ²Chinese Academy of Sciences, Chengdu, Sichuan, China, ³National Institute for Materials Science, Tsukuba, Japan, ⁴Center for Spintronics Integrated System, Sendai, Miyagi, Japan

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SESSION DS: SPINTRONIC DEVICES (POSTER SESSION)

Chair(s): M. Rasly, *Neuranics, Glasgow, United Kingdom*

Wednesday, April 15, 2026

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Exchange Hall

DS-01. Epitaxial Magnon Junctions with Gadolinium Gallium Garnet/Pt Hybrid Spacer

J. Lin, C. Wan, X. Han

Institute of Physics, Chinese Academy of Sciences, Beijing, China

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DS-02. Spintronic Logic Architecture in Single-Layer Ferromagnetic Oxides

S. Mondal, B. Prasad

Materials Engineering, Indian Institute of Science, Bangalore, Bangalore, Karnataka, India

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DS-03. Large Spin Hall Angle in Highly-Textured Sputtered BiSb (012) Topological Insulator on Si/SiO₂ Substrates Enabled by Buffer/Seed Stack

H. Ho¹, W. Li¹, P. Van Thuan¹, S. Hirayama², Y. Kato², H. N. Pham¹

¹Electrical and Electric Engineering, Institute of Science Tokyo, Meguro-ku, Tokyo, Japan, ²Samsung Device Solutions R&D Japan, Samsung Japan Corporation, Yokohama, Kanagawa, Japan

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DS-04. Field-Free Highly Efficient Spin-Orbit Torque Switching of Fe₃GaTe₂ Enabled by Unique Crystal-Symmetry of WTe₂

P. R. Sharma, B. Jang, J. Hong

Materials Science and Engineering, Yonsei University, Seoul, Seoul, Korea (the Republic of)

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DS-05. MnN as a Replacement for IrMn in Exchange Bias Systems

Y. Ghazwany

Physics, University of York, York, United Kingdom

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DS-06. Ruderman-Kittel-Kasuya-Yosida Interaction-Based Spintronic Physically Unclonable Functions

J. Lee, Y. Kim, M. Lee, Y. Kim

Materials science and engineering, Korea University, Seoul, Korea (the Republic of)

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DS-07. SPINfab – An Open Spintronics Pilot Line for Research and Industry

J. Faure-Vincent, G. Atcheson, C. Ducruet, M. R. Karim, S. Auffret, P. Warin, M. Rubio-roy, I. Prejbeanu

SPINTEC, CEA Grenoble, Grenoble, Isere, France

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DS-08. Spin texture propagation in stripe domain bifurcations under transverse fields

V. V. Fernández^{1,2}, A. Herguedas-Alonso^{1,2}, P. Suárez¹, Á. García-Casero¹, C. Fernandez Gonzalez³, A. Sorrentino³, R. Valcárcel³, C. Quirós^{1,2}, J. I. Martín^{1,2}, A. Hierro-Rodriguez^{1,2}, M. Velez^{1,2}

¹Depto. Física, Universidad de Oviedo, Oviedo, Asturias, Spain, ²CINN(CSIC-Universidad de Oviedo), El Entrego, Asturias, Spain, ³ALBA Synchrotron, Cerdanyola del Vallès, Cataluña, Spain

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DS-10. Reconfigurable physical unclonable functions based on magnetic domain patterns

B. He, X. Zhang

PSE, King Abdullah University of Science and Technology (KAUST), Jeddah, Saudi Arabia

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DS-11. NAND Gates Based on Nonlinear Magnonic Resonators

R. Leenders¹, H. Tan², A. Lutsenko², K. Fripp¹, A. Shytov¹, C. Dubs³, S. van Dijken², V. Kruglyak¹

¹University of Exeter, Exeter, United Kingdom, ²Aalto University, Aalto, Finland, ³INNOVENT e.V. Technologieentwicklung, Jena, Germany

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DS-12. Giant Perpendicular Magnetic Anisotropy in Mo / Boron-rich CoFeB / MgAl2O4 Junction for p-MTJ integration to 5-7 nm CMOS Processes

S. Kagami¹, R. Zhang¹, D. Ito¹, Q. Li², B. York², C. Hwang², X. Liu², S. Le², M. Maeda³, T. Fan³, Y. Tao³, H. Takano³, H. N. Pham¹

¹Electrical and Electronic Engineering, Science Tokyo, Tokyo, Japan, ²Western Digital Inc, Great Oaks site, San Jose, California, United States, ³Western Digital Inc., Fujisawa site, Kanagawa, Japan

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DS-13. The development of spin chips via co-integration of Magnetic Tunnel Junctions on full CMOS wafers

L. C. Benetti, A. Jenkins, R. Ferreira

International Iberian Nanotechnology Laboratory (INL), Braga, Portugal

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DS-15. Suppression of random telegraph noise (RTN) in magnetic tunnel junctions with thick MgO barriers

T. Azargoshasb¹, M. Rasly², H. Heidari^{1,2}

¹James Watt School of Engineering, Microelectronics Lab, James Watt School of Engineering, University of Glasgow, G12 8QQ, Glasgow, Glasgow, United Kingdom, ²Neuranics Ltd, Rothesay House, 134 Douglas St, Glasgow, G2 4HF, Glasgow, Glasgow, United Kingdom

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DS-16. MgO tunneling spintronics across capacitively-coupled atomic clusters

M. Bowen

IPCMS, Strasbourg, France

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SESSION DT: SENSORS (NON-RECORDING) II (POSTER SESSION)

Chair(s): S. Shreya, Electrical and Computer Engineering Department, Aarhus University, Aarhus, Denmark

Wednesday, April 15, 2026

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Exchange Hall

DT-01. Ferromagnetic Resonance Measurement of Nanoscale Thin Films Using A Lab-on-Chip Interferometer

Z. Liu, M. Sajal, Z. Xiang, M. Shen, B. J. Gonzalez, C. Shimp, L. Chomas, C. Fan, Y. I. Chen, L. R. Carley

Electrical and Computer Engineering, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States

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DT-02. A Coil-embedded Beacon Pole for 3D Localization of Surrounding Magnetic Flux Sensors

Y. Adachi^{1,2}, T. Fukui^{2,3}, D. Oyama^{1,4}, T. Shibuya⁵

¹Applied Electronics Laboratory, Kanazawa Institute of Technology, Minato-ku, Tokyo, Japan, ²Graduate School of Engineering, Kanazawa Institute of Technology, Nonoichi, Japan, ³LibreFields LLC, Tokyo, Japan, ⁴College of Engineering, Kanazawa Institute of Technology, Nonoichi, Japan, ⁵Advanced Products Development Center, TDK Corporation, Chiba, Japan

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DT-03. Magnetic Sensitivity Enhancement in a TbCo₂/FeCo/Quartz Shear Acoustic Waveguide SAW Sensor

G. A. Sanchez^{1,2}, O. Marbough¹, O. Bou Matar-Lacaze¹, A. Mazzamurro¹, M. Boutghatin¹, Y. Dusch¹, A. Ammar³, P. Pernod¹, N. Tiercelin¹, A. Tounzi², A. Benabou², A. Talbi¹

¹Centrale Lille, Hellemmes-Lille, France, ²L2EP, University of Lille, Villeneuve d'Ascq, 59655, France, ³Jeumont Electric, Jeumont, France

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DT-04. Exploration of Optimal Conditions for a Simple Anisotropy Control on Thin-film Element Using Joule Heating

H. Kikuchi, S. Kawasaki, H. Isomura

Iwate University, Morioka, Iwate, Japan

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DT-05. Inductive Generation of Rotation-Free Electric Fields and Non-Contact Liquid Characterization Using a Vector-Potential Transformer

J. Lyu, M. Daibo

Iwate University, Iwate, Japan

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DT-06. Acoustic Device Design for Ultra-Compact EVs Using a Giant Magnetostrictive Actuator: Vibration-Based Sound Radiation Performance Across Magnetostrictive Materials

T. Kato¹, H. Kato², T. Narita³, M. Furui¹

¹Mechanical Engineering, Tokyo University of Technology, Hachioji, Tokyo, Japan, ²Mechanical System Engineering, Tokai University, Kanagawa, Japan, ³Mechanical System Engineering, Tokai University, Kanagawa, Japan

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DT-07. High-Sensitivity Detection of Minute Magnetic Fields Using Resonant Circuit with HTS Coils

T. Yoshihara, M. Matsuo, H. Sasa, T. Yoshida, T. Sasayama

Kyushu University, Fukuoka, Japan

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DT-08. Environmental Qualification of a Submarine-Deployable 3-Axis Fluxgate Magnetometer

C. Kim¹, J. Choi², S. Hong³, M. Suk³, B. Jeong², D. Lee¹, H. Jeong¹, Y. Kim¹, H. Oh², S. Joo⁴

¹Performance Innovation R&D Center, Hanwha Ocean, Seoul, Seoul, Korea (the Republic of), ²Naval Ship Technologies R&D Center, Hanwha Ocean, Seoul, Seoul, Korea (the Republic of), ³Reach Center, Coam Tech, Bucheon-si, Bucheon-si, Korea (the Republic of), ⁴Korea research institute of standards and science, Daejeon, Daejeon, Korea (the Republic of)

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DT-10. Improving the Reproducibility of Eddy Current Testing for Coating Thickness Estimation Using PCB-Based Coils

M. Koll², B. Salcher², M. Peer², D. Wöckinger², G. Bramerdorfer², S. Schuster¹, S. Scheibhofer¹, N. Gstöttenbauer¹, J.

Reisinger¹

¹voestalpine Stahl GmbH, Linz, Upper Austria, Austria, ²Institute of Electric Machines and Power Electronics, Johannes Kepler University, Linz, Austria

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DT-11. Simulation study of the heavy-metal layer impact in SOT-based magnetic field sensors

J. F. Moutinho¹, D. Leita², J. P. Araújo¹

¹*Institute of Physics for Advanced Materials, Nanotechnology and Photonics (IFIMUP), University of Porto, Guimarães, Braga, Portugal,* ²*Department of Applied Physics and Science Education, Eindhoven University of Technology, Eindhoven, Netherlands*

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DT-12. A New TDR-Based High-Speed Non-Destructive Testing Method for Large-Area Magnetic Sheets

S. Yabukami^{1,2}, Y. Okuyama², K. Okita², M. Yamaguchi¹

¹*Tohoku University, Sendai, Miyagi, Japan,* ²*Tohoku-TMIT, Ltd, Sendai, Miyagi, Japan*

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DT-13. A Compact Nondestructive Thickness Gauge for Nanocrystalline Alloys

A. Mizusawa, Y. Gao

Oita University, Oita, Japan

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DT-14. A Planar RVDT-Style Inductive Angle Sensor with Linear Push–Pull Output and Minimized Lift-off Sensitivity.

A. Appukuttan Nair Syamala Amma¹, P. Ripka¹, J. Thalopil Vaheeda²

¹*Department of Measurement, Czech Technical University in Prague, Prague, Czechia,* ²*School of Engineering, Computing and Mathematics, Oxford Brookes University, Oxford, Oxfordshire, United Kingdom*

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DT-15. A Near-field Magnetic Wireless Read-out Scheme for Combined Measurement of Variable Reluctance based Displacement Sensor and Resistance based Temperature Sensor.

A. Appukuttan Nair Syamala Amma¹, P. Ripka¹, J. Thalopil Vaheeda², S. Vijayakumar³

¹*Department of Measurement, Czech Technical University in Prague, Prague, Czechia,* ²*School of Engineering, Computing and Mathematics, Oxford Brookes University, Oxford, Oxfordshire, United Kingdom,* ³*Department of Electrical Engineering, Indian Institute of Technology Palakkad, Palakkad, Kerala, India*

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SESSION DU: ANTIFERROMAGNETIC SPINTRONICS I (POSTER SESSION)

Chair(s): X. Han, *State Key Lab of Magnetism, Institute of Physics, Chinese Academy of Sciences, Beijing, China*

Wednesday, April 15, 2026

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Exchange Hall

DU-01. Exchange Surface Spin Waves in Type-A van der Waals Antiferromagnets

Z. Sun

Southern University of Science and Technology, Guangdong, China

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DU-02. Resistive-switching-driven multibit magnetic states (6 - bit) for data storage in NiO/Ni bilayers

A. Husain, S. Jammalamadaka

Physics, Indian Institute of Technology, Hyderabad, Hyderabad, Telangana, India

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DU-03. BEOL-Compatible Spin-Orbit Torque Device Enabled by a Non-Collinear Antiferromagnet

Y. Huang¹, Y. Lin¹, S. Huang², J. Chen¹, Y. Huang³, H. Ohmori⁴, K. Kawabata⁴, T. Kishi⁴, Y. Tseng¹

¹*Materials Science & Engineering, National Yang Ming Chiao Tung University, Hsinchu, Taiwan,* ²*International College of Semiconductor Technology, Hsinchu, Taiwan,* ³*Taiwan Semiconductor Research Institute, Hsinchu, Taiwan,* ⁴*TopoLogic Incorp., Tokyo, Japan*

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DU-04. Thermally-Induced Domain Wall Motion and Neel Skyrmion Generation in Synthetic Ferrimagnetic MultilayersY. Zhou², L. Shen², Z. Hou³, K. Cai¹, Y. Zhou²¹Hua Zhong University of Science and Technology, Wuhan, Hubei, China, ²School of Science and Engineering, The Chinese University of Hong Kong, Shenzhen, Shenzhen, Guangdong, China, ³South China Normal University, Guangzhou, Guangdong, China[View Digest Text](#)**DU-06. Novel 2D Altermagnetic Transition Metal Oxides with a Buckled Lieb Structure**

T. Taskiran, C. Sahin

UNAM - National Nanotechnology Research Center and Institute of Materials Science and Nanotechnology, Bilkent University, Ankara, Turkey

[View Digest Text](#)**DU-07. Domain-wall width in uniaxial ferrimagnets**M. Yanguas Carriñena¹, L. Rózsa^{2,3}, R. Otxoa⁴, U. Atxitia¹¹Institute of Materials Science of Madrid (ICMM-CSIC), Madrid, MADRID, Spain, ²HUN-REN Wigner Research Centre for Physics, Budapest, Hungary, ³Budapest University of Technology and Economics, Budapest, Hungary, ⁴Hitachi Cambridge Laboratory, Cambridge, United Kingdom[View Digest Text](#)**DU-08. Coherent magnon transport in a van der Waals antiferromagnet**K. Yu¹, J. Chen², R. Yuan³, H. Yu¹¹School of Integrated Circuit Science and Engineering, Beihang University, Beijing, Beijing, China, ²International Quantum Academy, Shenzhen, Guangdong, China, ³Cavendish Laboratory, University of Cambridge, Cambridge, United Kingdom[View Digest Text](#)**DU-11. Voltage-Controlled Skyrmions in Synthetic Antiferromagnetic Nanodiscs for Crossbar Memristors**R. Aboljadayel¹, S. Sivasubramani², A. Tsiamis¹, T. Prodromakis¹¹Engineering, University of Edinburgh, Edinburgh, United Kingdom, ²Indian Institute Of Technology Delhi, Delhi, India[View Digest Text](#)**BIERSTUBE**

Wednesday, April 15, 2026

05:30 PM-06:45 PM

Exchange Hall

Sponsored by

**WOMEN IN MAGNETISM NETWORKING EVENT**

Wednesday, April 15, 2026

05:30 PM-06:45 PM

The Gallery

MAGNETICS SOCIETY STANDARDS COMMITTEE MEETING

Wednesday, April 15, 2026

05:30 PM-07:00 PM

Exchange 6&7

AFMNET NETWORKING EVENT

Wednesday, April 15, 2026

06:45 PM-08:00 PM

The Gallery

SESSION EA: LOW-DIMENSIONAL QUANTUM MAGNETS ON SURFACES

Co-Chair(s): A. Bedoya Pinto, *Institute of Molecular Science, University of Valencia, Paterna, Spain* and J. Fischer, *University of Cologne, Cologne, Germany*
Thursday, April 16, 2026
08:30 AM-12:00 PM
Exchange Auditorium

08:30 AM-09:00 AM**EA-02. Above room temperature ferromagnetism in all-epitaxial 2D magnetic heterostructures**

[J.J. Lopes](#), T. Shinwari, K. I. Khan, H. Lv, M. Hanke, A. Trampert, J. Herfort, R. Engel-Herbert
Paul-Drude-Institute, Berlin, Germany

[View Digest Text](#)**09:00 AM-09:30 AM****EA-03. Proximity-Induced Magnetic Anisotropy and Interface States of Monolayer FeCl₂ on Bi(111)**

[S. Terakawa](#)
Graduate School of Engineering, The University of Osaka, Suita, Japan

[View Digest Text](#)**09:30 AM-10:00 AM****EA-04. Epitaxial van der Waals materials for magnetism and spin-charge conversion**

[F. Bonell](#)
SPINTEC-CNRS, Grenoble, France

[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-11:00 AM**EA-05. Laser-induced switching and magnetisation dynamics in van der Waals magnets**

[M. Dabrowski](#)
Physics, University of Exeter, Exeter, United Kingdom

[View Digest Text](#)**11:00 AM-11:30 AM****EA-06. Creating an Anderson Impurity in MoS₂ Mirror Twin Boundaries**

[W. Jolie](#)
II. Physikalisches Institut, University of Cologne, Cologne, Germany

[View Digest Text](#)

SESSION EB: FRONTIER RESEARCH IN MAGNETISM USING NEUTRONS AND MUONS

Co-Chair(s): S. Langridge, *ISIS Neutron and Muon Source, Rutherford Appleton Laboratory, Chilton, United Kingdom* and R. Ewings, *ISIS Pulsed Neutron and Muon Source, Didcot, United Kingdom*

Thursday, April 16, 2026

08:30 AM-12:00 PM

Charter 1

08:30 AM-09:00 AM

EB-01. Spin Architectures in Non-Collinear Antiferromagnets

F. Johnson¹, D. Boldrin², J. Zemen³, L. F. Cohen⁴

¹Physics, University of Cambridge, London, United Kingdom, ²School of Physics and Astronomy, University of Glasgow, Glasgow, United Kingdom, ³Faculty of Electrical Engineering, Czech Technical University in Prague, Prague, Czechia, ⁴Department of Physics, Blackett Laboratory, Imperial College London, London, United Kingdom

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09:00 AM-09:30 AM

EB-02. Neutrons and Muons for Topological Quantum Materials: Exploring Magnetic Order

E. Heppell^{1,2,4}, C. Kinane², A. Caruana², N. Steinke³, X. Liu⁵, X. Kou⁵, G. van der Laan⁴, D. Backes⁴, S. Langridge², T. Hesjedal^{1,2,4}

¹University of Oxford, Oxford, United Kingdom, ²ISIS Neutron and Muon Source, Didcot, United Kingdom, ³Institut Laue-Langevin, Grenoble, France, ⁴Diamond Light Source Ltd, Didcot, United Kingdom, ⁵School of Physical Science and Technology, ShanghaiTech University, Shanghai, China

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09:30 AM-10:00 AM

EB-03. The pseudo-doublet ground state of SrTm₂O₄ and its frustrated interactions

D. Quintero Castro^{1,2}, M. Spitaler^{1,3}, D. Mazzone¹, J. Lass¹

¹Paul Scherrer Institut, Villigen, Switzerland, ²University of Stavanger, Stavanger, Norway, ³ETH Zurich, Zürich, Switzerland

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10:00 AM-10:30 AM

Break

10:30 AM-11:00 AM

EB-04. Quantitative analysis of nanoscale magnetic textures using polarized small angle neutron scattering

N. Steinke¹, R. Cubitt¹, I. Titov², E. M. Jefremovas², S. Shan¹, A. Michels², V. Ukleev³, D. Singh⁴, J. S. White⁴

¹Institut Laue-Langevin, Grenoble, France, ²University of Luxembourg, Luxembourg, Luxembourg, ³Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany, ⁴Paul Scherrer Institut, Villigen, Switzerland

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11:00 AM-11:30 AM

EB-05. Exotic magnetic ground states in quasicrystals and their approximants

L. Woodland¹, D. Khalyavin¹, P. Manuel¹, F. Orlandi¹, H. Luetkens², R. Tamura³, F. Labib³

¹ISIS Neutron and Muon Source, Rutherford Appleton Laboratory, Didcot, United Kingdom, ²Laboratory for Muon-Spin Spectroscopy, Paul Scherrer Institut, Villigen, Switzerland, ³Department of Materials Science and Technology, Tokyo University of Science, Tokyo, Japan

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11:30 AM-12:00 PM

EB-06. Polarized Neutrons Reveal Altermagnetism in MnF₂

D. Bounoua

Laboratoire Léon Brillouin, UMR 12 CEA-CNRS, Gif-sur-Yvette, France

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SESSION EC: DEVELOPMENT OF SPINTRONIC DEVICESChair(s): F. Meng, *Computing and Memory Devices, Imec, Heverlee, Belgium*

Thursday, April 16, 2026

08:30 AM-12:00 PM

Charter 2

08:30 AM-09:00 AM**EC-01. Spinodal magnetoresistive memristors**T. Yamamoto¹, T. Ichinose¹, J. Uzuhashi², S. Tsunegi¹, T. Nozaki¹, T. Ohkubo², S. Tamaru¹, K. Yakushiji¹, H. Kubota¹, S. Yuasa¹¹National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Ibaraki, Japan, ²National Institute for Materials Science (NIMS), Tsukuba, Japan[View Digest Text](#)**09:00 AM-09:15 AM****EC-02. Realization of de Gennes' Absolute Superconducting Switch with a Heavy Metal Interface**H. Matsuki^{1,2}, A. Hijano^{3,4}, G. Mazur⁵, S. Ilic^{3,4}, B. Wang⁶, I. Alekhina², K. Ohnishi⁷, S. Komori⁸, Y. Li², N. Stelmashenko², N. Banerjee⁹, L. F. Cohen⁹, D. McComb⁶, S. Bergeret³, G. Yang¹⁰, J. Robinson²¹Kyoto University, Kyoto, Japan, ²University of Cambridge, Cambridge, United Kingdom, ³UPV/EHU, San Sebastian, Spain,⁴University of Jyväskylä, Jyväskylä, Finland, ⁵University of California Santa Barbara, Santa Barbara, California, United States, ⁶TheOhio State University, Columbus, Ohio, United States, ⁷Kindai University, Osaka, Japan, ⁸Nagoya University, Nagoya, Japan,⁹Imperial College, London, United Kingdom, ¹⁰Beihang University, Beijing, China[View Digest Text](#)**09:15 AM-09:30 AM****EC-03. Demonstration of High TMR ratio (>110%) in sub-10nm MTJ by Extremely Low Damage Process Based on the Physical Understanding of Edge Damage Region**H. Kanaya, T. Koike, R. Takashima, M. Toko, T. TADOKORO, S. Ono, C. Kamata, M. Saitoh, Y. Mimura, K. Koi, Y. Lee, M. Nakayama*Frontier Technology R&D institute, Kioxia Corporation, Yokohama, Japan*[View Digest Text](#)**09:30 AM-09:45 AM****EC-04. Engineering Dipolar-Coupled Spin Hall Nano-Oscillators Using an Asymmetric Nanoconstriction Geometry**R. Ovcharov¹, S. Nanda^{1,2}, R. Khymyn¹, A. Kumar^{1,4,3}, J. Akerman^{1,4,3}¹Department of Physics, University of Gothenburg, Gothenburg, Sweden, ²Indian Institute of Science, Bangalore, India, ³Center forScience and Innovation in Spintronics, Tohoku University, Sendai, Japan, ⁴Research Institute of Electrical Communication (RIEC),

Tohoku University, Sendai, Japan

[View Digest Text](#)**09:45 AM-10:00 AM****EC-05. Bias-dependent Sensitivity in CoFeB/MgO/GaAs Spin Photodiode**G. Lan^{2,1}, P. A. Dainone⁴, V. I. Safarov³, H. Jaffrès¹, Y. Lu⁴, J. George¹, H. Drouhin²¹Laboratoire Albert Fert, CNRS, Palaiseau, France, ²Laboratoire des Solides Irradiés, Ecole Polytechnique, Palaiseau, France,³ViasFiz, l'Hay-les-Roses, France, ⁴Institut Jean Lamour, Nancy, France[View Digest Text](#)**10:00 AM-10:30 AM**

Break

10:30 AM-10:45 AM**EC-06. Thermal Robustness Enhancement of All-Optical Switching Tunnel Junctions Based on Tb/Co Multilayers**Q. Trinh¹, J. Lin², B. Konyangyuen², D. Salomoni¹, S. Auffret¹, G. Malinowski², I. Prejbeanu¹, L. D. Buda-Prejbeanu¹, M. Hehn², S. Mangin², R. Sousa¹¹Magnetic Random Access Memory (MRAM), SPINtronique et Technologie des Composants (SPINTEC), Grenoble, France,²Spintronics and Nanomagnetism, Institute Jean Lamour, Nancy, France[View Digest Text](#)**10:45 AM-11:00 AM****EC-07. A Spintronic True Random Number Generator Using Vortex Nano-Oscillators and Probabilistic SOT-MTJ Programming**K. K. Das¹, S. Soni¹, A. Nisar², S. Shreya³¹Electronics and Communication Engineering, IIT Roorkee, Roorkee, Uttarakhand, India, ²Electronics and Communication Engineering, NIT Srinagar, Srinagar, Jammu and Kashmir, India, ³Electrical and Computer Engineering, Aarhus University

Denmark, Aarhus, Aarhus, Denmark

[View Digest Text](#)**11:00 AM-11:15 AM****EC-08. Field-free auto-oscillation in epitaxial Co/Pt spin Hall nano-oscillators**J. Choi², A. Chaurasiya², J. Kang¹, P. G. Lim³, V. Vadde², M. C. Hersam³, V. P. Dravid³, R. Khymyn², A. A. Awad^{2,4,5}, A. Kumar^{2,4,5}, P. Khalili Amiri¹, J. Akerman^{2,4,5}¹Department of Electrical and Computer Engineering, Northwestern University, Evanston, Illinois, United States, ²Department of Physics, University of Gothenburg, Gothenburg, Västra Götalands län, Sweden, ³Department of Materials Science and Engineering, Northwestern University, Evanston, Illinois, United States, ⁴RIEC, Tohoku University, Sendai, Japan, ⁵Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan[View Digest Text](#)**11:15 AM-11:30 AM****EC-11. Reconfigurable 2D Magnet-Based Logic with Fe₃GaTe₂ G-Hall Gates**

C. Sang, P. Li

University of Science and Technology of China, Hefei, Anhui, China

[View Digest Text](#)**SESSION ED: ALL OPTICAL SWITCHING AND ULTRAFAST MAGNETIZATION**

Co-Chair(s): M. Cherkasskii, RWTH Aachen University, Aachen, Germany and H. Hirori, Kyoto University, Uji, Kyoto, Japan

Thursday, April 16, 2026

08:30 AM-12:00 PM

Charter 3

08:30 AM-09:00 AM**ED-01. Nonlinear spin dynamics and ultrafast switching in antiferromagnets driven by terahertz magnetic pulses**

H. Hirori

Kyoto University, Uji, Kyoto, Japan

[View Digest Text](#)**09:00 AM-09:15 AM****ED-02. Transient domain boundary drives ultrafast magnetisation reversal**M. Hennecke¹, D. Schick¹, T. P. Sidiropoulos¹, J. Lin², Z. Guo², G. Malinowski², M. Mattern¹, L. Ehrentraut¹, M. Schmidbauer³, M. Schnuerer¹, C. von Korff Schmising¹, S. Mangin², M. Hehn², S. Eisebitt^{1,4}¹Max-Born-Institut für Nichtlineare Optik & Kurzzeitspektroskopie, Berlin, Germany, ²Université de Lorraine, CNRS, Institut Jean Lamour, Nancy, France, ³Leibniz-Institut für Kristallzüchtung, Berlin, Germany, ⁴Institut für Physik & Astronomie, Technische Universität Berlin, Berlin, Germany[View Digest Text](#)

09:15 AM-09:30 AM

ED-03. Laser-Induced Current Transients in Ultrafast All-Optical Switching of Metallic Spin ValvesS. Lepadatu¹, M. Gija¹, A. Dobrynin², K. McNeill², M. Gubbins², T. Mercer¹, S. M. McCann¹, P. Bissell¹¹University of Central Lancashire, Bolton, United Kingdom, ²Seagate Technology, Derry, United Kingdom[View Digest Text](#)

09:30 AM-09:45 AM

ED-04. Atomistic modelling of ultra-fast magnetisation switching under the Inverse Faraday effectS. Ruta¹, J. Hurst², M. Berritta², P. M. Oppeneer², R. W. Chantrell³¹Sheffield Hallam University, Sheffield, United Kingdom, ²Department of Physics and Astronomy, Uppsala University, Uppsala, Sweden, ³University of York, York, United Kingdom[View Digest Text](#)

09:45 AM-10:00 AM

ED-05. Sublattice dynamics manipulation in the ferrimagnet FeCr₂S₄ probed via ultrafast magneto-optical Kerr effectD. Soranzio^{1,2}, M. Savoini², F. Graf², R. T. Winkler², A. Nag^{3,1}, H. Ueda^{1,4}, K. Ohgushi⁵, Y. Tokura^{6,7}, S. Johnson²¹Paul Scherrer Institut, Zürich, Switzerland, ²Physics, ETH Zurich, Zürich, Switzerland, ³Physics, Indian Institute of Technology, Roorkee, India, ⁴Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany, ⁵Tohoku University, Sendai, Japan, ⁶RIKEN, Saitama, Japan, ⁷The University of Tokyo, Tokyo, Japan[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-11:00 AM

ED-06. High-resolution X-ray spectroscopy for ultrafast magnetismT. Amrhein², D. Gupta¹, C. Krohn², K. Holldack¹, C. Schüßler-Langeheine¹, M. Weinelt², N. Pontius¹, N. Thielemann-Kühn^{2,1}¹Helmholtz-Zentrum Berlin, Berlin, Germany, ²Freie Universität Berlin, Berlin, Germany[View Digest Text](#)

11:00 AM-11:15 AM

ED-07. Ultrafast dynamics of magnetic anisotropy and magnetic structure in ferrimagnetic CoTb alloys.M. Hemili^{1,2}, J. Luning⁴, C. Von Korff Schmising⁵, B. Pfau⁵, F. Capotondi³, V. Chardonnet¹, G. Chiuzbaian¹, M. Hennes², E. Jal¹, B. Vodungbo¹¹Laboratoire de Chimie Physique - Matière et Rayonnement (LCPMR) - CNRS - Sorbonne Université, Saint-Germain-en-Laye, France, ²INSP - Institut des NanoSciences de Paris - CNRS - Sorbonne Université, Paris, France, ³FERMI, Elettra-Sincrotrone Trieste, Basovizza, Trieste, Italy, ⁴Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany, ⁵Max-Born-Institut für Nichtlineare Optik und Kurzzeitspektroskopie, Berlin, Germany[View Digest Text](#)

11:15 AM-11:45 AM

ED-08. Coupled Dynamics of Quantum Orbitals and Quasi-Classical Magnons in Rare-Earth Iron OxidesR. V. Mikhaylovskiy

Lancaster University, Lancaster, United Kingdom

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11:45 AM-12:00 PM

ED-09. Phonon-Driven Ultrafast Spin Dynamics in Rare-Earth Orthoferrites Across Spin Reorientation TemperaturesM. Hales¹, O. Kovalenko¹, A. Kimel², D. Afanasiev², R. V. Mikhaylovskiy¹¹Physics, Lancaster University, Lancaster, United Kingdom, ²Radboud University, Nijmegen, Netherlands[View Digest Text](#)

SESSION EE: SIMULATION AND DESIGN OPTIMIZATION OF ELECTROMAGNETIC SYSTEMS IIChair(s): W. Gao, *Harbin Institute of Technology Shenzhen Graduate School, Shen Zhen, Guang Dong, China*and J. Yuan, *Wuhan University, China*

Thursday, April 16, 2026

08:30 AM-12:00 PM

Charter 4

08:30 AM-09:00 AM**EE-01. Investigation of the Anisotropic Vector Hysteresis Effect in Grain-Oriented Electrical Steel Applied to a Gapped-Core Reactor**B. Daniels*Electrical Engineering, Eindhoven University of Technology, Eindhoven, Noord-Brabant, Netherlands*[View Digest Text](#)**09:00 AM-09:15 AM****EE-02. Mathematical Model and Control Method of Linear Motor Based on Air and Magnetic-Bearings**K. Matsuda, J. Zhu, J. Fu, D. Nie*College of Electrical and Information Engineering, Hunan University, Changsha, China*[View Digest Text](#)**09:15 AM-09:30 AM****EE-03. AI-Assisted Design for Permanent Magnet Synchronous Motor**Y. Chang², C. Ting², J. Chang^{2,1}*¹Power Mechanical Engineering, National Tsing Hua University, Hsinchu, Taiwan, ²Mechanical and Mechatronics Systems Research Laboratories, Industrial Technology Research Institute, Zhudong Township, Hsinchu County, Taiwan*[View Digest Text](#)**09:30 AM-09:45 AM****EE-04. Comparison of two electromagnetic analytical models for the optimal design of yokeless rotor Halbach-array Electric Motor**A. Salloukh^{1,2}, A. Tounzi¹, N. Nguyen¹, D. Prieto², M. McClelland²*¹Univ. Lille, Arts et Metiers Institute of Technology, Lille, France, ²NIDEC - LEROY SOMER, Angoulême, France*[View Digest Text](#)**09:45 AM-10:00 AM****EE-05. Research on the Characteristics and Transfer Behavior of PMSM Mount Vibration Based on Equivalent Excitation Sources**R. Zhao, Z. Xu, Y. Xu, J. Zou*Department of Electrical Engineering, Harbin Institute of Technology, Harbin, China*[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM**EE-06. An Angle-dependance Magnetostriction Anisotropy Model and Experimental Validation**C. Lyu, K. Narazaki, K. Kiyota*Institute of Science Tokyo, Meguro, Tokyo, Japan*[View Digest Text](#)

10:45 AM-11:00 AM**EE-07. Optimization of a loudspeaker voice coil**A. Lowther¹, A. Perregaux¹, D. Lowther²¹Maya HTT, Westmount, Quebec, Canada, ²Electrical and Computer Engineering, McGill University, Montreal, Quebec, Canada[View Digest Text](#)**11:00 AM-11:15 AM****EE-08. Viscoelastic simulation for the magnetic loss and the influence of punching on non-oriented electrical steel**B. Ducharne^{1,3}, F. Martin², A. Belahcen²¹Institut National des Sciences Appliquées de Lyon, Villeurbanne, France, ²Department of Electrical Engineering and Automation, Aalto University, Helsinki, Finland, ³Tohoku University, Sendai, Miyagi, Japan[View Digest Text](#)**11:15 AM-11:30 AM****EE-09. Methods to reduce AC loss of ReBCO HTS coils in linear motors for high-dynamic motion applications**A. Desikan, D. Krop, B. De Bruyn, E. A. Lomonova

Electrical Engineering, Eindhoven University of Technology, Eindhoven, Netherlands

[View Digest Text](#)**11:30 AM-11:45 AM****EE-10. Impact of Residual-Stress-Based Flux Barriers on Iron Losses in Permanent Magnet Synchronous Machines**A. Douiri¹, P. Stöcks-Morgan², I. Gilch², W. Volk², N. Leuning¹¹Institute of Electrical Machines (IEM), Institute of Electrical Machines (IEM), RWTH Aachen University, Germany, Aachen, Germany, ²Chair of Metal Forming and Casting, Technical University of Munich, Garching, Germany[View Digest Text](#)**11:45 AM-12:00 PM****EE-11. A 3-D Magneto-Thermal Coupling Model for Ferrite Toroidal Cores Based on Vector Magnetic-Circuit Theory**H. Wang, Z. Wang, M. Cheng, W. Qin, X. Ma, C. Li

School of Electrical Engineering, Southeast University, Nanjing, Jiangsu, China

[View Digest Text](#)**SESSION EF: MAGNETIC NANOSTRUCTURES FOR BIOMEDICAL APPLICATIONS**Chair(s): M. Rivas, *Department of Physics, Universidad de Oviedo, Gijón, Spain*

Thursday, April 16, 2026

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Exchange 9

08:30 AM-09:00 AM**EF-01. Magnetically responsive nanomaterials for multimodal thermal actuation and chemotherapeutic activation**R. López-Méndez¹, N. Lafuente-Gómez¹, E. Céspedes², M. Dhanjani¹, M. París-Ogáyar^{1,4,5}, F. Terán¹, A. Serrano⁴, J. Camarero^{1,6}, G. Salas¹, C. Wilhelm⁷, Á. Somoza¹, A. Espinosa^{2,3}¹IMDEA Nanociencia, Madrid, Spain, ²Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC), Madrid, Spain, ³Unidad Asociada de Nanomateriales Avanzados, IMDEA Nanociencia – Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC), Madrid, Spain,⁴Departamento de Electrocerámica, Instituto de Cerámica y Vidrio (ICV-CSIC), Madrid, Spain, ⁵Nanomaterials for Bioimaging Group (nanoBIG), Departamento de Física de Materiales – Facultad de Ciencias, Universidad Autónoma de Madrid, Madrid, Spain, ⁶Departamento de Física de la Materia Condensada and Instituto “Nicolás Cabrera”, Universidad Autónoma de Madrid, Madrid, Spain, ⁷Laboratoire Physico Chimie Curie (PCC), CNRS UMR168, Institut Curie, Sorbonne University, PSL University, Paris, France[View Digest Text](#)

09:00 AM-09:15 AM

EF-02. Connecting intra-particle magnetic disorder to heat release in iron oxide nanoparticles for hyperthermia applicationsE. M. Jefremovas^{1,2}, P. Rooms³, A. Gallo-Cordova⁴, K. De Buysse³, M. d. Morales⁴, F. Wiekhorst⁵, J. Leliaert⁶¹Department of Physics and Materials Science, University of Luxembourg, Luxembourg, Luxembourg, ²Institute for Advanced Studies, Esch-sur-Alzette, Luxembourg, ³Department of Chemistry, Ghent University, Ghent, Belgium, ⁴Institute of Materials Science of Madrid (ICMM-CSIC), Madrid, Spain, ⁵Metrology of Magnetic Nanoparticles, Physikalisch-Technische Bundesanstalt, Berlin, Germany, ⁶Dept. of solid state sciences, Ghent University, Ghent, Belgium[View Digest Text](#)

09:15 AM-09:30 AM

EF-03. Optimizing magnetic hyperthermia performance under safety limits: role of anisotropy, shape and interactionsD. Failde⁵, V. Ocampo-Zalvide³, C. Puig¹, D. Serantes^{3,4}, O. Iglesias^{1,2}¹Dpt. Condensed Matter Physics, University of Barcelona, Barcelona, Spain, ²Institute of Nanoscience and Nanotechnology of the UB, IN2UB, Barcelona, Spain, ³Applied Physics Dpt., Universidade de Santiago de Compostela, Santiago de Compostela, Spain, ⁴Instituto de Materiais (iMATUS), Santiago de Compostela, Spain, ⁵Galicia Supercomputing Center (CESGA), Santiago de Compostela, Spain[View Digest Text](#)

09:30 AM-09:45 AM

EF-04. Harmonic Response and Heat Dissipation Effects of Mn_{1-x}Gd_xFe₂O₄ Nanoparticles for Theranostic ApplicationsT. Sakamoto¹, N. Kataoka¹, Y. Ichiyanagi^{1,2}¹Physics, Yokohama National University, Yokohama, Japan, ²Science, The University of Osaka, Toyonaka, Osaka, Japan[View Digest Text](#)

09:45 AM-10:00 AM

EF-05. Design of biocidal magnetic nanorods for magnetic field-driven broad-spectrum biofilm removalM. Caf^{1,2}, N. Zaveršek³, S. Pajk², J. Sabotič³, S. Kralj^{1,2}¹Department for Materials Synthesis, Jozef Stefan Institute, Ljubljana, Slovenia, ²Faculty of Pharmacy, University of Ljubljana, Ljubljana, Slovenia, ³Department of Biotechnology, Jozef Stefan Institute, Ljubljana, Slovenia[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-11:00 AM

EF-06. From Random to Aligned: Intracellular Vesicle Chaining in Magnetic HyperthermiaA. Paez-Rodriguez¹, Y. Fernandez-Afonso¹, S. Ruta², S. Gleadhall², L. Chica¹, M. Perez Cortes¹, A. Satoh³, R. W. Chantrell⁴, T. van Zanten¹, D. Serantes⁵, L. Gutiérrez¹¹Instituto de Nanociencia y Materiales de Aragón, Zaragoza, Zaragoza, Spain, ²Sheffield Hallam University, Sheffield, United Kingdom, ³Akita Prefectural University, Akita, Japan, ⁴University of York, York, United Kingdom, ⁵Universidade de Santiago de Compostela, Santiago de Compostela, Spain[View Digest Text](#)

11:00 AM-11:15 AM

EF-07. Magnetic Disk Particles for Hyperthermia and Magnetic Particle ImagingH. J. Hug^{1,2}, E. Mayr¹, J. Ackers³, H. Wei³, S. Helbig⁴, S. Koraltan⁴, M. Krupinski⁵, D. Suess⁴, M. Graeser³, I. K. Herrmann⁶¹Magnetic and Functional Thin Films, Empa, Duebendorf, Zurich, Switzerland, ²Physics, University of Basel, Basel, Basel, Switzerland, ³Fraunhofer Research Institution for Individualized and Cell-Based Medical Engineering, Luebeck, Germany, ⁴Physics of Functional Materials, University of Vienna, Vienna, Austria, ⁵Institute of Nuclear Physics, Polish Academy of Sciences, Krakov, Poland, ⁶Nanoparticle Systems Engineering Laboratory, Department of Mechanical and Process Engineering, ETH Zurich, Zurich, Switzerland[View Digest Text](#)

11:15 AM-11:30 AM

EF-08. Role of Magnetic Anisotropy in Tracers for MPI: Silica-coated Co-Ni Ferrite Nanoparticles and their Magnetic Particle Spectra

L. Kubickova¹, T. Voltrova^{1,2}, J. Kulickova¹, P. Veverka¹, K. Ahn¹, D. Kubaniova², J. Kohout², O. Kaman¹

¹Department of Magnetism and Superconductors, Institute of Physics of the Czech Academy of Sciences, Praha, Czechia,

²Department of Low-Temperature Physics, Faculty of Mathematics and Physics of the Charles University, Praha, Czechia

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11:30 AM-11:45 AM

EF-09. Soft Micro-Magnets for Improved Dynamic Manipulation of Magnetic Nanoparticles

M. T. Nguyen², B. Bouvet¹, E. Secret¹, J. Siaugue¹, T. Devillers²

¹Sorbonne University, Paris, France, ²Institut Néel CNRS, Grenoble, France

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11:45 AM-12:00 PM

EF-10. Magnetic Source Localization Based on Magnetic Dipole-array Method for Demagnetizing Field Estimation

T. Fukui^{1,3}, T. Shibuya⁴, Y. Adachi^{1,2}

¹Graduate School of Engineering, Kanazawa Institute of Technology, Ishikawa, Japan, ²Applied Electronics Laboratory, Kanazawa Institute of Technology, Ishikawa, Japan, ³LibreFields LLC, Tokyo, Japan, ⁴Advanced Products Development Center, TDK, Chiba, Japan

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SESSION EG: SOFT MAGNETIC MATERIALS: FROM OXIDES TO NANOCRYSTALLINE ALLOYS

Chair(s): N. Shkodich, Faculty of Physics, University of Duisburg-Essen, Duisburg, Germany

Thursday, April 16, 2026

08:30 AM-12:00 PM

Exchange 10

08:30 AM-09:00 AM

EG-01. Energy Losses in Soft Magnetic Ferrites

S. Dobák¹, C. Beatrice², F. Fiorillo², V. Tsakaloudi³

¹Institute of Physics, P. J. Šafárik University, Kosice, Slovakia, ²Istituto Nazionale di Ricerca Metrologica, Torino, Italy, ³Center for Research and Technology Hellas, Thessaloniki, Greece

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09:00 AM-09:15 AM

EG-02. Magnetic losses in Mn-Zn ferrites over an extended frequency and temperature domain

E. Ferrara¹, N. Banu¹, C. Beatrice¹, V. Tsakaloudi², F. Fiorillo¹

¹Innovative Materials Metrology and Life Science, INRIM, Torino, Torino, Italy, ²Laboratory of Inorganic Materials, CERTH, Thessaloniki, Greece

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09:15 AM-09:30 AM

EG-03. Crystallization kinetics and perpendicular anisotropy of YIG thin films grown on SiO₂/Si substrate using localized laser annealing

J. Wang^{1,2,3}, T. Zhang^{1,2,3}, Y. Yang⁴, Z. Wei^{1,2,3}, D. Wu^{1,2,3}, L. Bi^{1,2,3}

¹University of Electronic Science and Technology of China, Chengdu, Sichuan, China, ²National Engineering Research Centre of Electromagnetic Radiation Control Materials, University of Electronic Science and Technology of China, Chengdu, Sichuan, China, ³State Key Laboratory of Electronic Thin-Films and Integrated Devices, University of Electronic Science and Technology of China, Chengdu, Sichuan, China, ⁴National Laboratory on Adaptive Optics, Chengdu, Sichuan, China

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09:30 AM-09:45 AM

EG-04. Compositional Design Guidelines for Low-Damping Rare-Earth Iron Garnets: First-Principles Insights into Lattice Distortion

Y. Yahagi, Y. Omori, H. Someya, M. Ishida

NEC Corporation, Tokyo, Japan

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09:45 AM-10:00 AM

EG-05. Annealing-Tuned Spin Reorientation and 4f--3d Sublattice Competition in Sputtered Thulium Iron Garnet Thin Films

C. C. Soares^{2,1,3}, T. J. Mori³, F. Béron¹, J. S. Moodera^{4,5}, J. Criginski Cezar³, J. Brandao³, G. Vilela^{2,6}

¹*Instituto de Física Gleb Wataghin, Universidade Estadual de Campinas, Campinas, São Paulo, Brazil*, ²*Física dos Materiais, Universidade de Pernambuco, Recife, Pernambuco, Brazil*, ³*Laboratório Nacional de Luz Síncrotron, Campinas, São Paulo, Brazil*,

⁴*Department of Physics, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States*, ⁵*Plasma Science and*

Fusion Center and Francis Bitter Magnet Laboratory, Cambridge, Massachusetts, United States, ⁶*Center for Advanced*

Semiconductor Materials and Devices, State University of New York Polytechnic Institute,, Utica, New York, United States

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10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM

EG-06. Impact of Dipolar Interactions on Magnetic Moment Distribution and Magnetization Process in Superparamagnetic Nanoparticle Systems

S. Rajput, S. Tiwari

Department of Physics and Materials Science, Thapar institute of engineering and technology, Patiala, Punjab, India

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10:45 AM-11:00 AM

EG-07. Co-M (M= Cu, Ni) Nanoparticles: a magnetic study to control the complex equilibrium between the structure and the magnetization reversal behavior

M. Lassoued¹, N. Mekeranter², C. Gatel³, J. Piquemal², L. Sicard², S. Mercone¹

¹*Indre et Loire, Université de Tours, Tours, France*, ²*Université de Paris, Paris, France*, ³*University Toulouse III, Toulouse, France*

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11:00 AM-11:15 AM

EG-08. Ag-induced hardening and enhanced magnetic performance in SPS-consolidated CoCrFeMnNi-Ag_x (x = 0; 1; 2.5; 5.5 at. %) high-entropy alloys

E. Kasotakis¹, I. Tarasov¹, T. Smoliarova¹, H. Shokri², B. Gökce², A. Aubert³, O. Gutfleisch³, M. Farle¹, N. Shkodich¹

¹*Faculty of Physics and Center of Nanointegration (CENIDE), University of Duisburg-Essen, Duisburg, Germany*, ²*Chair of Materials*

Science and Additive Manufacturing, School of Mechanical Engineering and Safety Engineering, University of Wuppertal,

Wuppertal, Germany, ³*Functional Materials, Institute of Materials Science, Technical University of Darmstadt, Darmstadt,*

Germany

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11:15 AM-11:30 AM

EG-09. Detailed Analysis of the Reversible and Irreversible Permeability Spectra of Fe-based Nanocrystalline Materials

Y. Tomita

Corporate R&D Center, Daido Steel Co., Ltd., Nagoya, Aichi, Japan

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11:30 AM-11:45 AM

EG-10. Tailoring of Magnetic Properties and Giant Magnetoimpedance Effect in Co-Fe-Si-B-Ni-Mo Amorphous MicrowiresM. Salaheldeen^{4,2,5}, V. Zhukova^{4,2,3}, P. Rodríguez Jiménez^{4,2}, J. Gonzalez^{4,3}, A. Zhukov^{1,2,3}¹Basque Foundation for Science, San Sebastian, Spain, ²Dept. Appl. Phys., University of the Basque Country, San Sebastian, Spain,³EHU Quantum Center, University of the Basque Country, San Sebastian, Spain, ⁴Dept. Polym. and Adv. Mater., University of theBasque Country, San Sebastian, Spain, ⁵Phys. Dept, Fac.Science, University, Sohag, Sohag, Egypt[View Digest Text](#)

11:45 AM-12:00 PM

EG-11. Direct Measurement of Geometry-Dependent Stress Sensitivity in Near-Zero-Magnetostriction Glass-Coated MicrowiresJ. Moya¹, M. Vázquez²¹Universidad Católica de Salta, INTECIN UBA-CONICET, Salta, Argentina, ²Instituto de Ciencia de Materiales de Madrid, CSIC, Spain, Madrid, Spain[View Digest Text](#)

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SESSION EH: FERROMAGNETIC RESONANCE AND SPIN WAVES IIIChair(s): C. Swindells, *NIST, Boulder, Colorado, United States*

Thursday, April 16, 2026

08:30 AM-12:00 PM

Exchange 11

08:30 AM-09:00 AM**EH-01. Moving Abrikosov vortices generate sub-40-nm magnons**O. Dobrovolskiy*Cryogenic Quantum Electronics, EMG and LENA, Technische Universität Braunschweig, Braunschweig, Germany*[View Digest Text](#)**09:00 AM-09:15 AM****EH-02. Tailoring Spin-Wave Propagation in Nanoscale YIG Magnonic Crystals**K. Levchenko¹, K. Davidkova¹, M. Moalic², R. Serha¹, C. Dubs³, M. Urbánek⁴, M. Krawczyk², A. Chumak¹¹*Faculty of Physics, University of Vienna, Vienna, Vienna, Austria*, ²*Department of Physics of Nanostructures, Adam Mickiewicz University, Poznan, Poland*, ³*INNOVENT e.V. Technologieentwicklung, Jena, Germany*, ⁴*CEITEC Nano, Brno University of Technology, Brno, Czechia*[View Digest Text](#)**09:15 AM-09:30 AM****EH-03. Reconfigurable spin-wave diffraction in integrated MEMS-magnonic device**A. Angotti¹, F. Travagnin¹, M. Coconcelli¹, S. Pal¹, A. Papp², G. Csaba², B. Heinz³, F. Kohl³, P. Pirro³, F. Maspero¹, R. Bertacco¹¹*Department of Physics, Politecnico di Milano, Milano, MI, Italy*, ²*Faculty for Information Technology and Bionics, Pazmany Peter Catholic University of Budapest, Budapest, Hungary*, ³*Department of Physics, Technische Universität Kaiserslautern, Kaiserslautern, Germany*[View Digest Text](#)**09:30 AM-09:45 AM****EH-04. Spin-Wave Modes in Bismuth-doped Yttrium Iron Garnet : Uniform to Stripe Domains transition**T. Srivastava¹, V. Leroy¹, J. Adam¹, J. Ben Youssef², T. Devolder¹, J. Kim¹¹*Centre for Nanoscience and Nanotechnology, CNRS, Université Paris Saclay, Palaiseau, France*, ²*LabSTICC, CNRS, Université de Bretagne Occidentale, Brest, France*[View Digest Text](#)**09:45 AM-10:00 AM****EH-05. Imaging Temperature-Tuneable Spin-Wave Refraction Using Spins in Diamond**P. Vree, M. Bouma, T. van der Sar*Quantum Nanoscience, Delft University of Technology, Delft, South-Holland, Netherlands*[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM**EH-08. Manifestation of Coupling Phases in Multiple Ferromagnetic Spheres Cavity Magnonics System**M. P. Avicena¹, G. Bourcin², V. Vlaminck¹, J. Bourhill³, V. M. Castel¹¹*Microwave, IMT Atlantique, Plouzane, Finistere, France*, ²*KWAN-TEK, Ploemeur, France*, ³*Quantum Technologies and Dark Matter Research, The University of Western Australia, Perth, Western Australia, Australia*[View Digest Text](#)

10:45 AM-11:00 AM**EH-09. Spin waves involved in three-magnon splitting in synthetic antiferromagnets**A. Mouhoub¹, N. Bardou¹, J. Adam¹, A. Solignac², T. Devolder¹¹C2N, CNRS / Université Paris-Saclay, Palaiseau, France, ²CEA-SPEC, Gif-sur-Yvette, France[View Digest Text](#)**11:00 AM-11:15 AM****EH-10. Electrical Control of Spin-Wave Transport in VO₂/YIG Heterostructures**A. A. Nikitin¹, E. Lähderanta², S. van Dijken¹¹Applied Physics, Aalto University, Espoo, Finland, ²Physics, LUT University, Lappeenranta, Finland[View Digest Text](#)**11:15 AM-11:30 AM****EH-11. Dipolar-Field Imprinted Magnon Dynamics via Artificial Spin Ice**A. J. Wright¹, T. Zheng¹, T. Dion^{2,3}, A. Vanstone¹, D. Bromley¹, V. K. Kushwaha³, S. Yoshii¹, T. Hayward⁴, T. Seki³, H. Kurebayashi^{5,2}, G. van der Laan⁶, W. R. Branford¹, D. M. Burn⁶, J. Gartside^{1,2}¹Physics, Imperial College London, London, United Kingdom, ²CSIS, Tohoku University, Sendai, Japan, ³IMR, Tohoku University, Sendai, Japan, ⁴Department of Materials Science and Engineering, The University of Sheffield, Sheffield, United Kingdom,⁵Electronic and Electrical Engineering, University College London, London, United Kingdom, ⁶Magnetic Spectroscopy Group, Diamond Light Source Ltd, Didcot, United Kingdom⁵Electronic and Electrical Engineering, University College London, London, United Kingdom, ⁶Magnetic Spectroscopy Group, Diamond Light Source Ltd, Didcot, United Kingdom[View Digest Text](#)**SESSION EP: ADVANCED MAGNETICS FOR TRANSFORMERS, POWER ELECTRONICS, AND SUSPENSION COMPONENTS
(POSTER SESSION)**Co-Chair(s): T. Chang, *Department of Vehicle Engineering, National Kaohsiung University of Science and Technology, Kaohsiung, Taiwan* and P. Huang, *Mechanical Engineering, National Cheng Kung University, Tainan, Taiwan*

Thursday, April 16, 2026

09:00 AM-12:00 PM

Exchange Hall

EP-01. Dynamic Wireless Power Transfer AI-Based Design Optimization Environment – EV Sedan Case StudyR. Almazmomi^{1,2}, A. A. Arkadan²¹Electrical Engineering, King Abdulaziz University, Rabigh, Makkah, Saudi Arabia, ²Electrical Engineering, Colorado School of Mines, Golden, Colorado, United States[View Digest Text](#)**EP-03. Micromagnetic Simulation Method Incorporating Scaled Magnetostatic Structures: A Case Study on Demagnetization Behavior in Halbach Arrays**X. Zheng, L. Wang, Z. Sun, L. Li, G. Yang*Nanjing University of Science and Technology, Nanjing, China*[View Digest Text](#)**EP-07. Impact of Interlayer Parasitic Capacitance in Dual-Layer Coils for Wireless Electric Vehicle Charging**S. Niu¹, W. Liu¹, C. Li², K. Chau¹¹Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Kowloon, Hong Kong, ²Department of Design and Architecture, Technological and Higher Education Institute of Hong Kong (THEi), Hong Kong, Hong Kong[View Digest Text](#)**EP-08. Novel PCB Coil Design for Internally Illuminated Photoreactors**B. Ortner, A. Sutor*Institute of Measurement and Sensor Technology, UMIT TIROL, Hall in Tirol, Tirol, Austria*[View Digest Text](#)

EP-09. Magnetic properties of dust cores composed of PREP iron powdersY. Kodama¹, S. Yoshida², S. Aja¹, S. Muroga¹, S. Okamoto^{2,3,4}, Y. Endo^{1,3}¹Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan, ²Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai, Japan, ³Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Japan, ⁴National Institute for Materials Science (NIMS), Tsukuba, Japan[View Digest Text](#)**EP-10. Topology-Dependent Induced Voltage in a Toroidal Vector-Potential Transformer: Simulation and Experiment**

S. Ogata, M. Daibo

Graduated School of Science and Engineering, Iwate University, Morioka, Iwate, Japan

[View Digest Text](#)**EP-11. A Magnetic-Informed Multitask Convolutional Neural Network for Fault Detection During Transformer Energization**H. Zhan¹, C. Yan¹, M. Dai¹, X. Yang¹, D. Liang^{1,2}, X. Kang¹, B. Zhang¹¹Xi'an Jiaotong University, Xi'an, Shaanxi, China, ²Xi'an XD Smart Electrical Manufacturing Co., Ltd, Xi'an, China[View Digest Text](#)**EP-12. An Efficient Hybrid Magnetic Circuit Modeling Method for Transformer Interturn Short-circuit Fault Calculations**M. Dai¹, C. Yan¹, H. Zhan¹, X. Yang¹, D. Liang^{1,2}, X. Kang¹, B. Zhang¹¹Xi'an Jiaotong University, Xi'an, Shaanxi, China, ²Xi'an XD Smart Electrical Manufacturing Co., Ltd, Xi'an, China[View Digest Text](#)**EP-13. High-Current Regulation System Based on an Inductance with Local Saturations: Study of Magnetic Coupling Between the Power Circuit and the Command Coils**J. Imaankaf¹, C. Demian¹, R. Romary¹, D. Roger¹, M. Zmirli², P. Bernard²¹Laboratoire Systèmes Electrotechniques et Environnement (LSEE), UR 4025, Université Artois, Béthune, France, ²Bernard Bonnefond, Saint-Etienne, France[View Digest Text](#)**EP-14. Analysis of Internal Electric Field Characteristics in a 500kVA Three-Phase Transformer**

J. Yu, C. Kim, J. Jung, C. Jin

Department of Electrical Engineering, Wonkwang University, Iksan, Korea (the Republic of)

[View Digest Text](#)**EP-16. Air gap permeance method in a segmented stator, segmented rotor switched reluctance motor**

R. Santos, L. Tria

Electrical and Electronics Engineering Institute, University of the Philippines Diliman, Quezon City, Metro Manila, Philippines

[View Digest Text](#)**SESSION EQ: MAGNETIZATION DYNAMICS AND MICROMAGNETICS II (POSTER SESSION)**

Chair(s): N. Reyren, Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, CNRS, Palaiseau, France

Thursday, April 16, 2026

09:00 AM-12:00 PM

Exchange Hall

EQ-01. Easy-Axis Reorientation Analysis of Magnetic Nanoparticles Using BD-kMC SimulationsS. u. Haq¹, K. Okada², I. López Vázquez¹, O. Iglesias⁴, D. Serantes¹, R. W. Chantrell³¹Applied Physics, University de Santiago de Compostela, Santiago de Compostela, Spain, ²Mechanical Engineering, Saitama Institute of Technology, Fukaya, Japan, ³School of Physics, Engineering and Technology, The University of York, York, United Kingdom, ⁴Dpt. de Física de la Matèria Condensada, Universitat de Barcelona and IN2UB, Barcelona, Spain[View Digest Text](#)

EQ-02. Advanced atomistic simulations of magnetic materials using the VAMPIRE software package

R. F. Evans

School of Physics, Engineering and Technology, University of York, York, United Kingdom

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EQ-03. Serial Magnetic Force Microscopy of Skyrmion Nucleation in Multilayers

A. Temiriazey, M. Temiriazeva

Horiba France SAS, Lille, France

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EQ-04. Current-driven dynamics of an isolated skyrmion in a racetrack with material defects: Influence of defect size and density

P. Kamal

Physics, Indian Institute of Technology (IIT) ,Ropar, Ropar, Punjab, India

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EQ-05. Fast Multipole Methods for Efficient Demagnetisation Field Computation in Micromagnetics

M. Haahr, R. Bjørk, A. R. Insinga

Department of Energy Conversion and Storage, Technical University of Denmark, København NV, Denmark

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EQ-06. Fully Quantum-Mechanical Simulations of an Iron(II) Spin-Crossover Complex

E. R. Crawford, S. Felton, D. M. Wilkins

Centre for Quantum Materials and Technologies, Queen's University Belfast, Grange, United Kingdom

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EQ-07. Topological nucleation mechanism and Bloch point formation in weak stripe domain racetracks

V. V. Fernández^{1,2}, S. Ferrer³, A. Hierro-Rodriguez^{1,2}, M. Velez^{1,2}

¹Departamento de Física, Universidad de Oviedo, Oviedo, Asturias, Spain, ²CINN-CSIC, El Entrego, Asturias, Spain, ³ALBA Synchrotron, Cerdanyola del Vallès, Barcelona, Spain

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EQ-08. Nonlinear Skyrmion Motion Controlled by Voltage-Induced Magnetic Exchange Gradients

R. S. Verma², R. K. Raj^{1,2}, S. Soni², T. Pramanik², S. Shreya¹

¹Electrical and Computer Engineering Department, Aarhus University, Aarhus, Denmark, ²Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India

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EQ-09. Prediction of Magnetic Properties from Domain Images: Microscopy, Modeling, and Machine Learning

A. Talapatra^{1,2}, U. Gajera³, A. Chelvane⁴, J. Mohanty²

¹GlobalFoundries, Dresden, Germany, ²Physics, Indian Institute of Technology Hyderabad, Hyderabad, India, ³Department of Physics and CSMB, Humbolt University, Berlin, Germany, ⁴Defence Metallurgical Research Laboratory, Hyderabad, India

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EQ-10. Mode-Selective Microwave Annealing of Skyrmion Lattices

T. Srivastava, J. Kim

Centre for Nanoscience and Nanotechnology, CNRS, Université Paris Saclay, Palaiseau, France

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EQ-11. Skyrmion generation via domain wall anchoringS. Jeong¹, D. Jung¹, G. Kim¹, M. Kang¹, Y. Park⁴, H. Han², M. Im³, K. Lee^{1,4}¹Ulsan National Institute of Science and Technology (UNIST), Ulsan, Ulju-gun, Korea (the Republic of), ²Korea National University of Transportation, Chungju, Korea (the Republic of), ³Lawrence Berkeley National Laboratory, Berkeley, California, United States, ⁴Graduate School of Semiconductor Materials and Devices Engineering, Ulsan National Institute of Science and Technology, Ulsan, Korea (the Republic of)[View Digest Text](#)**EQ-14. Elemental asymmetries of spin and electron dynamics in an insulating ferrimagnet**S. Saha¹, R. Knut², R. Mailik^{2,3}, K. Jatkar^{2,3}, R. Stefanuik², S. Jana^{2,4}, J. Soderstrom², A. Gupta⁵, F. Radu⁶, C. Luo^{6,7}, O. Karis², [D. A. Arena](#)⁸¹Department of Physics, Ashoka University, Baden, Switzerland, ²Department of Physics and Astronomy, Uppsala University, Uppsala, Sweden, ³Department of Microtechnology and Nanoscience, Chalmers University of Technology, Gothenburg, Sweden, ⁴Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy, Berlin, Germany, ⁵Center for Materials for Information Technology, The University of Alabama, Alabama, Alabama, United States, ⁶Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany, ⁷Technical University of Munich, Munich, Germany, ⁸Department of Physics, University of South Florida, Tampa, Florida, United States[View Digest Text](#)**EQ-15. Investigation of magnetic-domain dynamics for integrated spintronic–photonic devices**T. Zhang¹, Y. Herrera Moreno de Acevedo¹, G. Simons¹, M. van der Schans¹, Y. Jiao², B. Koopmans¹¹Applied physics, Eindhoven University of Technology, Eindhoven, Netherlands, ²Electrical Engineering, Eindhoven University of Technology, Eindhoven, Netherlands[View Digest Text](#)**EQ-16. Optical control of RKKY coupling and perpendicular magnetic anisotropy in a synthetic antiferromagnet**M. Ma¹, [J. Wu](#)², B. Liu¹, Y. Xu¹¹Nanjing University, Nanjing, China, ²University of York, York, United Kingdom[View Digest Text](#)**SESSION ER: MAGNETO-ELASTICS AND NEW COUPLED MAGNETIC PHENOMENA I (POSTER SESSION)**

Chair(s): M. Krawczyk, Faculty of Physics and Astronomy, Adam Mickiewicz University, Poznan, Poland

Thursday, April 16, 2026

09:00 AM-12:00 PM

Exchange Hall

ER-01. Nb-Driven Alterations in Lattice Structure and Low-Temperature Magnetism of Spin Ice Pyrochlore Dy₂Ti₂O₇[R. Sain](#), A. Rai, C. Upadhyay

School of Materials Science and Technology, IIT (BHU) Varanasi, Varanasi, India

[View Digest Text](#)**ER-02. Tailoring Shape-Memory Properties in Ni-Fe-Ga Microwires**M. Elias^{1,3,2}, L. Nulandaya², S. Sakthivel¹, T. Ryba¹, M. Vavra¹, O. Milkovic^{1,4,5}, L. Straka², O. Heczko², [R. Varga](#)^{1,2}¹RVmagnetics a.s., Kosice, Slovakia, ²Inst. Phys., Academy of Sciences of the Czech Republic, Prague, Czechia, ³Technical University in Kosice, Kosice, Slovakia, ⁴Institute of Experimental Physics, Slovak Academy of Sciences, Kosice, Slovakia, ⁵Inst. Materials Research, Slovak Academy of Sciences, Kosice, Slovakia[View Digest Text](#)**ER-03. Search for Increased Transformation Temperatures in Ni-Mn-Ga Magnetic Shape Memory Heusler Alloys by Combined Alloying with Transitional Metals**[O. Heczko](#)

Magnetic Materials, FZU - Institute of Physics Czech Academy of Science, Praha, Czechia

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ER-04. Role of Bi³⁺ in Modulating the Lattice and Spin Dynamics of Terbium Iron Garnet

P. Saha, O. Manner, [T. Bora](#)

Physics, NIT Meghalaya, Sohra, Meghalaya, India

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ER-05. Magnetized Enhancement as 2655-fold at Room Temperature, Prussian Blue for Radioactive Cesium Adsorption

[H. Ok^{1,2}](#), K. Lee^{1,2}

¹Ulsan National Institute of Science and Technology (UNIST), Ulsan, Ulju-gun, Korea (the Republic of), ²Blue Magnet Co., Ltd., Ulju-gun, Ulsan, Korea (the Republic of)

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ER-06. Perpendicularly Anisotropic Nanocomposite Films Exhibiting Large Magneto-Optical Effects

[H. Kijima-Aoki¹](#), H. Ohba¹, K. Ikeda², N. Kobayashi², T. Hasegawa³, M. Ohnuma³, H. Masumoto¹, S. Yabukami¹

¹Tohoku University, Sendai, Japan, ²Research Institute for Electromagnetic Materials, Sendai, Miyagi, Japan, ³Hokkaido University, Sapporo, Japan

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ER-08. Hidden antiferromagnetism and localized magnetoelastic coupling in ferromagnetic LaMn₂Ge₂

[J. K. Dey](#), S. Chowdhury, M. Hoesch

PETRA III, Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany

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ER-09. Exploring New Magnetostrictive Materials

T. Okada, T. Davies, D. de Mounteney, R. Rowan-Robinson, J. Baylis, Y. Azakli, J. Berry, [N. Morley](#)

Materials Science and Engineering, University of Sheffield, Sheffield, United Kingdom

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ER-11. Magnetoelastic anisotropy in ordered double perovskite Sm₂CoFeO₆

[W. Ahmad¹](#), A. Ghosh¹, D. Palai², S. G. Bhat³, R. J. Choudhary⁴, P. Anil Kumar³, D. Samal², C. Sow¹

¹Physics, Indian Institute of Technology Kanpur, Kanpur 208016, Uttar Pradesh, India, ²Institute of Physics, Bhubaneswar 751005, India, ³Physics, Indian Institute of Science, Bangalore 560012, India, ⁴UGC DAE Consortium for Scientific Research, Indore 452001, India

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ER-12. Preparation of Fe-6.5 wt. % Si Alloy Epitaxial Thin Films with Disordered and Ordered Phases for Magnetostrictive Characterization

[K. Imamura¹](#), Y. Okabe¹, Y. K. Takahashi², M. Ohtake¹

¹Yokohama National University, Yokohama, Japan, ²National Institute for Materials Science (NIMS), Tsukuba, Japan

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ER-13. Magnetostrictive Properties of Cubic Cu_{0.6}Co_{0.4}Fe₂O₄ and Tetragonal Cu_{0.8}Co_{0.2}Fe₂O₄ under Pulsed High Magnetic Fields

[S. Kosugi¹](#), T. Kida², M. Hagiwara², S. Seino¹, T. Nakagawa¹, S. Fujieda³

¹Graduate School of Engineering, The University of Osaka, Suita, Osaka, Japan, ²Graduate School of Science, The University of Osaka, Toyonaka, Japan, ³Co-Creation Institute for Advanced Materials, Shimane University, Matsue, Japan

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ER-14. Thin film BiFeO₃ for interfacing with epitaxial CoPtS. Song¹, M. F. Jankowski³, C. J. McCluskey², M. Gregg², A. J. Bell³, T. A. Moore¹¹*School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom*, ²*Centre for Quantum Materials and Technologies, Queen's University Belfast, Belfast, United Kingdom*, ³*School of Chemical and Process Engineering, University of Leeds, Leeds, United Kingdom*[View Digest Text](#)**SESSION ES: RECORDING MEDIA AND SENSORS (POSTER SESSION)**Chair(s): T. Wu, *Huawei Technologies Co., Ltd., Moscow, Russian Federation*

Thursday, April 16, 2026

09:00 AM-12:00 PM

Exchange Hall

ES-01. Design of A Novel Linear Variable Differential Flux Position SensorM. Mirzaei, J. Maier, [P. Ripka](#)*Electrical Engineering, Czech Technical University, Prague, Czechia*[View Digest Text](#)**ES-02. Linearity Range Extension of Linear Variable Inductive Transducer Position Sensor**M. Mirzaei, J. Maier, [P. Ripka](#)*Electrical Engineering, Czech Technical University, Prague, Czechia*[View Digest Text](#)**ES-04. Analytical Modeling of Angle Errors in TMR Angle Sensors with Synthetic Antiferromagnet Reference Layers**[Y. Wang](#)¹, S. Cardoso^{1,2}, P. Freitas^{1,2}¹*Instituto de Engenharia de Sistemas e Computadores–Microsistemas e Nanotecnologias, Lisbon, Portugal*, ²*Physics Department, Instituto Superior Tecnico, Lisbon, Portugal*[View Digest Text](#)**ES-06. A Mixed-Core Checkerboard Configuration for Improved Offset Stability in a Four-Rod Fluxgate Sensor**[H. K. Aydogan](#), U. Sevgen*BILGEM, TUBITAK, Kocaeli, Turkey, Turkey*[View Digest Text](#)**ES-07. Calibration of Wide-Range Magnetometers Using Residual-Driven Adaptive Local Linearization**[L. Qi](#)¹, B. Han^{1,2}, R. Feng^{1,2}¹*School of Instrumentation Science and Optoelectronics Engineering, Beihang University, Beijing, China*, ²*Hefei National Laboratory, Beijing, China*[View Digest Text](#)**ES-08. Boosting the Signal From the Lower Recording Structure in Three-Dimensional Magnetic Recording**[S. Greaves](#)¹, H. Suto², Y. Nakamura³, Y. Kanai⁴¹*Tohoku University, Sendai, Japan*, ²*National Institute for Materials Science (NIMS), Tsukuba, Japan*, ³*Ehime University, Matsuyama, Japan*, ⁴*Niigata Institute of Technology, Kashiwazaki, Japan*[View Digest Text](#)**ES-09. Magnetic Properties and Microstructure of FePt (BN, Zn, C) Films**[J. Tsai](#), R. Xie, W. Cheng, Y. Chuang, H. Huang*Department of Materials Science and Engineering, National Chung Hsing University, Taichung, Taiwan, Taiwan*[View Digest Text](#)

ES-10. Analysis of Nonmagnetic Interlayer Thickness in Three-Dimensional Heat-Assisted Magnetic Recording Using a Three-Recording-Layer Bit-Patterned Medium

[K. Sugawara](#), F. Akagi

Kogakuin University, Tokyo, Japan

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ES-11. Plasmonic Nanoantennas for Helicity-Dependent All-Optical Switching

[T. E. McCormack](#), J. N. Scott, W. R. Hendren, N. Kuninski, R. M. Bowman

Centre for Quantum Materials and Technologies, Queen's University Belfast, Belfast, Antrim, United Kingdom

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ES-12. Perpendicular Magnetic Field-Assisted Vibration Power Generators Using Amorphous and Nanocrystalline Fe-Based Alloy Ribbons

[N. Isogai](#), S. Kamiya, Y. Nakamura, T. Kawai, M. Ohtake

Faculty of Engineering, Yokohama National University, Yokohama, Japan

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ES-13. Multi-Axis atomic comagnetometer enabled by nuclear spin perturbation

[A. Papneja](#), B. Buchler, M. hedges

Department of Quantum Science, Australian National University, Cook, Australian Capital Territory, Australia

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ES-14. Design of a Low-frequency Enclosed Differential Driver-Pickup Eddy-Current Sensor for Surface Defect Detection in Reformer Tubes

C. Sun¹, C. Chen¹, Y. Wu¹, [C. Lin](#)¹, Y. Lin²

¹National Taiwan University, Taipei City, Taiwan, ²Industrial Technology Research Institute, Taipei City, Taipei, Taiwan

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SESSION ET: ANTIFERROMAGNETIC SPINTRONICS II (POSTER SESSION)

Co-Chair(s): T. Shiino, *Institut de Ciència de Materials de Barcelona (ICMAB-CSIC), Bellaterra, Barcelona, Spain* and D. Kriegner, *Academy of Sciences of the Czech Republic, Praha, Czechia*

Thursday, April 16, 2026

09:00 AM-12:00 PM

Exchange Hall

ET-01. Spin Hall and unidirectional magnetoresistance in Non-Collinear Antiferromagnet/Molecular Interfaces

[H. Vasili](#)

School of Physics & Astronomy, University of Leeds, Leeds, West Yorkshire, United Kingdom

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ET-02. Chiral Domain-Wall Logic in a Two-Sublattice Ferrimagnet: Operation Window and Failure Mechanisms

[D. Wu](#)², Y. Ma¹, Z. Luo³, K. Cai²

¹Beijing Superstring Academy of Memory Technology, Beijing, China, ²Hua Zhong University of Science and Technology, Wuhan, China, ³Peking University, Beijing, China

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ET-03. Ab initio Study of Magnetic and Transport Properties of Fully Compensated Ferrimagnetic Heusler Alloys at Finite Temperatures

[S. Yamashita](#)¹, E. Pandey¹, G. Fecher¹, C. Felser¹, A. Hirohata^{1,2}

¹Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, ²Tohoku University, Sendai, Miyagi, Japan

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ET-04. Thin films of the non-collinear antiferromagnet Mn₃Sn

E. Abboubi, G. Atcheson, R. Guedas Garcia, M. Rubio Roy, J. Faure-Vincent, O. Boulle, V. Baltz
CEA-SPINTEC, Grenoble, France

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ET-05. Strong non-linear current response in platinum/ferrimagnetic-insulator systems

M. Fettizio, T. Shiino, C. Avci
Institut of Material Science of Barcelona (ICMAB-CSIC), Barcelona, Spain

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ET-06. Broadly Tunable Compensation in Ferrimagnetic MnFeVAI Heusler Alloy Thin Film

E. Pandey¹, S. Yamashita¹, E. Lesne¹, G. Fecher¹, C. Felser¹, A. Hirohata^{1,2}

¹Topological Quantum Chemistry, Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, ²Tohoku University, Sendai, Japan

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ET-08. Electrical switching of altermagnetism

Y. Chen
Southern University of Science and Technology, Shenzhen, Guangdong, China

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ET-09. Anisotropic spin transport and TMR effect based on quasi two-dimensional d-wave altermagnet

Q. Zhang, J. Dong, S. Wang, J. Zhang
School of Physics, Huazhong University of Science and Technology, Wuhan City, Hubei Province, China

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ET-10. Magnetic memory driven by spin splitting torque in nonrelativistic collinear antiferromagnet.

Y. Guo^{3,4,1}, A. Chen^{2,5}, Z. Zeng⁵, T. An³, X. Zhang², H. Wu^{3,4}

¹Great Bay University, Dongguan, Guangdong, China, ²Physical Science and Engineering Division, Thuwal, Saudi Arabia,

³Songshan Lake Materials Laboratory, Guangdong, China, ⁴Institute of Physics, Chinese Academy of Sciences, Beijing, China,

⁵State Key Laboratory of Electronic Thin Film and Integrated Devices, Chengdu, China

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MEET THE DISTINGUISHED LECTURERS WORKSHOP

Thursday, April 16, 2026

12:15 PM-01:15 PM

The Gallery

EUROPEAN RESEARCH COUNCIL SESSION: NOVELTIES AND TIPS FOR WRITING YOUR PROPOSAL

Thursday, April 16, 2026

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Exchange 9

SESSION FA: KERR ANNIVERSARY SYMPOSIUM

Chair(s): R. Hicken, *Physics and Astronomy, University of Exeter, Exeter, United Kingdom*

Thursday, April 16, 2026

01:30 PM-03:45 PM

Exchange Auditorium

01:30 PM-01:57 PM

FA-01. The magneto-optic Kerr effect: Reflections on 150 years of history, present usage and future developments

A. Berger

CIC nanoGUNE, San Sebastian, Spain

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01:57 PM-02:24 PM

FA-02. Magneto-optical Kerr effect spectroscopy

J. Hamrle^{1,2}

¹*Faculty of Mathematics and Physics, Charles University in Prague, Prague, Czechia,* ²*Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague, Prague, Czechia*

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02:24 PM-02:51 PM

FA-03. Magneto-Optical Microscopy and Magnetometry

R. Schaefer

Leibniz Institute for Solid State and Materials Research (IFW) Dresden, Dresden, Germany

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02:51 PM-03:18 PM

FA-04. Multi-Scale Magnetization Dynamics Through the Lens of the Magneto-Optical Kerr Effect

C. S. Davies^{1,2}

¹*HFML-FELIX, Nijmegen, Gelderland, Netherlands,* ²*Radboud University, Nijmegen, Netherlands*

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03:18 PM-03:45 PM

FA-05. The Magneto-Optical Kerr Effect: Looking to the future

C. Donnelly

Max Planck Institute for Chemical Physics of Solids, Dresden, Germany

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SESSION FB: ELECTRON SPINS FOR QUANTUM COMPUTING AND SENSINGChair(s): J. Abadillo-Uriel, *Instituto de Ciencia de Materiales de Madrid (ICMM), Madrid, Spain*

Thursday, April 16, 2026

01:30 PM-03:45 PM

Charter 1

01:30 PM-02:00 PM**FB-01. Progress in Silicon-based Quantum Computing**S. Tarucha*Center for Emergent Matter Science, RIKEN, Wako, Saitama, Japan*[View Digest Text](#)**02:00 PM-02:30 PM****FB-02. Nanoscale quantum sensing of 2D magnetic systems**J. Wrachtrup*Center for Applied Quantum Technologies, University of Stuttgart, Stuttgart, Germany*[View Digest Text](#)**02:30 PM-03:00 PM****FB-03. Charge Noise and Decoherence in Si Spin Qubits: Challenges and Mitigation Strategies**J. Nichol^{1,2}*¹Physics and Astronomy, University of Rochester, Rochester, New York, United States, ²Center for Coherence and Quantum Science, University of Rochester, Rochester, New York, United States*[View Digest Text](#)**03:00 PM-03:30 PM****FB-04. Spin-based microwave quantum memories approaching unit efficiency**J. Morton*University College London, London, United Kingdom*[View Digest Text](#)**SESSION FC: MAGNETIC ORDER AND CONTROL IN TWO-DIMENSIONAL MAGNETS**Chair(s): A. Bedoya Pinto, *Institute of Molecular Science, University of Valencia, Paterna, Spain*

Thursday, April 16, 2026

01:30 PM-03:45 PM

Charter 2

01:30 PM-02:00 PM**FC-01. Magnetic Order in 2D Materials Beyond Bulk Constraints**J. Fischer*Institute of Physics II, University of Cologne, Cologne, Germany*[View Digest Text](#)**02:00 PM-02:15 PM****FC-02. Graphene Coupled to CrX₃ van der Waals 2D Magnets: A Promising Host for Correlated Electrons**I. Rozhansky, V. Fal'ko*University of Manchester, Manchester, United Kingdom*[View Digest Text](#)

02:15 PM-02:45 PM**FC-03. Manipulation of spin ordering in 2D magnets**Y. Xu¹, X. Zhang¹, B. Liu¹, L. He¹, X. Ruan¹, G. Bian², J. Wu³¹Nanjing University, Nanjing, Jiangsu, China, ²University of Missouri, Columbia, Missouri, United States, ³The University of York, York, Yorkshire, United Kingdom[View Digest Text](#)**02:45 PM-03:00 PM****FC-04. Programmable Magnetic Switching in Orthogonally-Twisted Two-Dimensional Magnets**S. Mañas-Valero

Universitat de Valencia, Valencia, Spain

[View Digest Text](#)**03:00 PM-03:30 PM****FC-05. Dzyaloshinskii-Moriya interaction in Fe₅GeTe₂ epitaxial thin films**J. Sampaio¹, A. Pascaud¹, E. Quero¹, A. Thiaville¹, V. Polewczyk², A. Marty², F. Bonell², A. Mougin¹¹Laboratoire de Physique des Solides, CNRS / Université Paris-Saclay, Orsay, France, ²CEA-SPINTEC, Grenoble, France[View Digest Text](#)**03:30 PM-03:45 PM****FC-06. Strong Magnetoelectronic Coupling in the van der Waals Magnet CrPS₄**G. Buccoliero^{1,2}, R. Nickel¹, M. dos Reis Cantarino¹, R. Sant³, A. Rogalev¹, N. J. Yutronkie¹, T. Riccardi², K. Kummer¹, J. Coraux², N. Brookes¹¹The European Synchrotron, Grenoble, France, ²Institut Néel CNRS, Grenoble, France, ³Physics, Politecnico di Milano, Milano, Lombardia, Italy[View Digest Text](#)**SESSION FD: INNOVATIONS IN MAGNETIC MEASUREMENTS: FROM NANO TO MACROSCALE TECHNIQUES**

Chair(s): V. Lauter, Neutron Scattering Division, ORNL, Oak Ridge, Tennessee, United States

Thursday, April 16, 2026

01:30 PM-03:45 PM

Charter 3

01:30 PM-02:00 PM**FD-01. Theory and experiment of momentum-resolved magnon electron energy spectra: prospects for nanoscale magnon and spin structure mapping by electron microscopy**J. A. Do Nascimento^{1,2,3}, D. Cheshire¹, F. Cossu^{1,4}, A. Kerrigan^{1,2}, P. Hasnip¹, D. Kepaptsoglou^{1,3}, S. Cavill¹, Q. Ramasse^{3,5}, V. K. Lazarov^{1,2}¹School of Physics, Engineering and Technology, University of York, York, UK, United Kingdom, ²York-JEOL Nanocentre, University of York, York, United Kingdom, ³SuperSTEM, Sci-Tech Daresbury Campus, Daresbury, United Kingdom, ⁴Department of Physics, School of Natural and Computing Sciences, University of Aberdeen, Aberdeen, United Kingdom, ⁵School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom[View Digest Text](#)**02:00 PM-02:15 PM****FD-02. Magnetic Vector Tomography of Thick Chiral Magnets**P. Mitchell¹, L. Turnbull², M. Raboni-Ferreira¹, R. Yamamoto^{1,3}, J. Neethirajan¹, B. Kaulich², L. Higgins², C. Donnelly^{1,3}¹Spin3D, Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, ²Diamond Light Source Ltd, Didcot, United Kingdom, ³International Institute for Sustainability with Knotted Chiral Meta Matter, Hiroshima, Japan[View Digest Text](#)

02:15 PM-02:30 PM

FD-04. Detailed magnetization reversal characteristic of magnetic force microscopy probes in inhomogeneous microcoil fields

R. Ravishankar^{3,1}, A. Sathyadharma Prasad^{3,1}, A. Singh^{3,1}, M. Heigl², R. Schaefer^{3,1}, M. Albrecht², T. Mühl³, V. Neu³

¹Dresden University of Technology, Dresden, Germany, ²University of Augsburg, Augsburg, Germany, ³Leibniz Institute for Solid State and Materials Research (IFW) Dresden, Dresden, Germany

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02:30 PM-02:45 PM

FD-05. Skyrmion-superconducting vortex pairs in a chiral magnet-superconductor heterostructure

X. Qiu

Institute of Physics, Chinese Academy of Sciences, Beijing, China

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02:45 PM-03:00 PM

FD-06. Wafer-scale estimation of thermal stability with magneto-optical measurement system for STT-MRAM

K. Suzuki¹, I. Kim², S. Ueyama¹, J. Shin², J. Song³, W. Kim³, T. Kim³, J. Jeong³, S. Bae², S. Jang⁴, J. Park³, M. Lee³

¹Samsung Device Solutions R&D Japan, Samsung Japan Corp., Yokohama, Kanagawa, Japan, ²Memory Equipment & component Technology Team, Samsung Electronics Co., Ltd., Hwaseong-si, Gyeonggi-do, Korea (the Republic of), ³Advanced Process Development Team, Semiconductor R&D Center, Samsung Electronics Co., Ltd., Hwaseong-si, Gyeonggi-do, Korea (the Republic of), ⁴Foundry Equipment & component Technology Team, Samsung Electronics Co., Ltd., Hwaseong-si, Gyeonggi-do, Korea (the Republic of)

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03:00 PM-03:15 PM

FD-07. Noise-Induced Deformation of PCA Representations in Magnetically Split Mössbauer Spectra

S. Sharmin, C. Mitsumata, H. Yanagihara, E. Kita

Applied Physics, University of Tsukuba, Tsukuba, Ibaraki, Japan

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FD-08. A Compensated Mini-Permeameter for Localized Magnetic Loss Measurements on Magnetic Laminations

O. de la Barrière², G. Khan¹, C. Ragusa¹, F. Mazaleyrat², L. Solimene¹, A. Prete³

¹Department of Energy, Politecnico di Torino, Torino, Italy, ²Laboratoire SATIE, CNRS/ENS Paris-Saclay, Gif-sur-Yvette, France,

³Lagor S.r.l., Cerro Tanaro, Asti, Italy

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SESSION FE: PERMANENT MAGNET MACHINES AND MAGNETICALLY GEARED MACHINES IV

Chair(s): R. M. Hilal, *Faculty of Art & Design, Egypt Japan University of Science and Technology, Alexandria, Egypt* and Min-Fu Hsieh, *National Cheng Kung University, Taiwan*

Thursday, April 16, 2026

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Charter 4

01:30 PM-01:45 PM

FE-01. Investigation of Rotor Manufacturing Imperfections in Permanent Magnet Synchronous Motors

A. Ceylan², [M. Aydin](#)¹

¹*Mechatronics Engr., Kocaeli University, Umuttepe, Izmit, Kocaeli, Turkey*, ²*MDS Motor Ltd., Kocaeli, Kocaeli, Turkey*

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01:45 PM-02:00 PM

FE-02. Iron Loss Comparison in Ring Test Excited by Linear Amplifier with Sinusoidal and Trapezoidal Voltage/Current Control Methods

[K. Akizuki](#)¹, T. Fujita¹, H. Fujimoto¹, K. Fujisaki², M. Nakagawa³, T. Miyajima³, Y. Yasuda³, A. Yamagiwa³

¹*The University of Tokyo, Kashiwa, CHIBA, Japan*, ²*Toyota Technological Institute, Nagoya, Japan*, ³*DAIKIN INDUSTRIES, Settsu, Japan*

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02:00 PM-02:15 PM

FE-03. Electro-Thermal Coupling-Based Comparative Analysis and Optimal Topology Selection for Axial Flux Permanent Magnet Machine

J. Liu, [W. Jiang](#)

Nanjing University of Aeronautics and Astronautics, Nanjing, China

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02:15 PM-02:30 PM

FE-04. A Novel 2D Technique for Stator Slot Effect Mitigation in Spoke-type Permanent Magnet Machines Using Unequal Rotor Bridge Openings

[A. Mohammadi Ajamloo](#)^{1,2}, M. Ibrahim^{1,2,3}, P. Sergeant^{1,2}

¹*Electromechanical, Systems and Metal Engineering, Ghent University, Ghent, Belgium*, ²*FlandersMake@UGent– corelab MIRO, Leuven, Belgium*, ³*Department of Electrical Engineering, Kafrelshiekh University, Kafr el-Sheikh, Egypt*

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02:30 PM-02:45 PM

FE-05. Suppression of Open-Circuit and On-Load Vibration in IPM Machine for Electric Vehicles by Rotor Auxiliary Slots

[L. Liu](#), Z. Wu, W. Hua

School of Electrical Engineering, Southeast University, Nanjing, Jiangsu Province, China

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02:45 PM-03:00 PM

FE-06. Design and Analysis of a Dual Ironless-Rotor Support Structure for Lightweight Permanent Magnet Motor Considering Electromagnetic and Mechanical Aspects

[Q. Lin](#), Z. Zhang, H. Xue, Y. Hua

Nanjing University of Aeronautics and Astronautics, Nanjing, China

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03:00 PM-03:15 PM**FE-07. Analysis of Flux-Switching and Vernier PM Machines Using Field Harmonic Theory**

M. Azeem, M. Gulec, P. Sergeant
University of Ghent, Ghent, Belgium

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X. Zhang, P. Lin, X. Liu, S. Huang
College of Electrical and Information Engineering, Hunan University, Changsha, Hunan, China

[View Digest Text](#)**03:30 PM-03:45 PM****FE-09. A Novel Consequent-Pole Bearingless Permanent Magnet Motor with Active Axial Suspension**

X. Ouan, Z. Deng, C. Wu
College of Automation Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China

[View Digest Text](#)**SESSION FF: EMERGING MAGNETIC MATERIALS AND FUNCTIONAL MAGNETISM**

Co-Chair(s): C. Favieres, *Science. Physics, Public University of Navarre, Pamplona, Navarre, Spain* and J. Palomares, *Nanoscience and Nanotechnology, Institute of Materials Science of Madrid (ICMM-CSIC), Madrid, Madrid, Spain*

Thursday, April 16, 2026

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Exchange 9

01:30 PM-01:45 PM**FF-02. Ordering in an Einstein Artificial Spin Ice**

T. Wang^{1,2}, F. Museum^{1,2}, G. Macauley^{3,1,2}, F. Flicker⁴, L. Berchialla^{1,2}, P. Derlet^{1,2}, L. Heyderman^{1,2}
¹Paul Scherrer Institut, Hausen, Switzerland, ²ETH Zurich, Zurich, Switzerland, ³Princeton University, Princeton, New Jersey, United States, ⁴University of Bristol, Bristol, United Kingdom

[View Digest Text](#)**01:45 PM-02:00 PM****FF-03. Discovery of a New Magnetic MAX Phase MoCrCoC with Ferromagnetic-Like Behavior Near Room Temperature**

B. K. Rai, G. Tran, T. Koenig
Savannah River National Laboratory, Martinez, Georgia, United States

[View Digest Text](#)**02:00 PM-02:15 PM****FF-04. Melt spinning processing of CoMnFeNi High-Entropy Alloys textured magnets**

L. M. Feitosa¹, R. Gitti Tortoretto Fim¹, M. R. M. da Silva¹, M. Farle², B. Gault^{3,1}, N. Shkodich²
¹Circular Metallurgy and Alloy Design (MA), Max-Planck-Institut für Nachhaltige Materialien GmbH, Düsseldorf, NRW, Germany, ²University Duisburg-Essen, Duisburg, NRW, Germany, ³Université de Rouen Normandie, Rouen, France

[View Digest Text](#)**02:15 PM-02:30 PM****FF-05. Laser-induced magnetic lignin for sustainable microwave absorption**

D. C. Santacruz Estevez, B. Liu
Ningbo Global Innovation Center, Zhejiang University, Ningbo, China

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02:30 PM-02:45 PM

FF-06. EMMO-based Ontology for Magnetic MaterialsW. Hortschitz¹, S. Pile¹, S. J. Holt^{2,3}, M. Lang^{2,3}, S. A. Pathak^{2,3}, A. Petrocchi^{2,3}, H. Fangohr^{2,3,4}, T. Schrefl¹¹Department for Integrated Sensor Systems, University for Continuing Education Krems, Wiener Neustadt, Austria, ²Max Planck Institute for the Structure and Dynamics of Matter, Hamburg, Germany, ³Center for Free-Electron Laser Science, Hamburg, Germany, ⁴SO17 1BJ, University of Southampton, Southampton, United Kingdom[View Digest Text](#)

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FF-07. Magnetic based Physically Unclonable FunctionsA. Magni¹, G. Barrera¹, F. Celegato¹, F. Riboli^{2,3}, D. Wiersma^{2,3}, S. Nocentini¹, P. Tiberto¹¹Materials and Life Sciences, INRIM, Torino, Italy, ²Istituto Nazionale di Ottica, CNR, Sesto Fiorentino, Italy, ³LENS, Sesto Fiorentino, Italy[View Digest Text](#)

03:00 PM-03:15 PM

FF-08. Magnetic Scale Mitigation in Dynamic Ionic Fluids Using Modular External Permanent-Magnet DevicesB. G. Silva¹, E. López Meza², H. E. Schluter³, A. L. Martins³, A. M. de Paula Silva¹, R. L. Sommer¹¹Condensed Matter Physics, Applied Physics and Nanoscience., Brazilian Center for Research in Physics, Rio de Janeiro, Rio de Janeiro, Brazil, ²Physics, Federal University of Rio de Janeiro, Rio de Janeiro, Rio de Janeiro, Brazil, ³Petrobras, Rio de Janeiro, Rio de Janeiro, Brazil[View Digest Text](#)

03:15 PM-03:30 PM

FF-09. Microstructural Origin of Domain-Wall Pinning in Cu-Doped CeCo_{5.4} MagnetsT. Smoliarova¹, A. Kovács², X. Chen³, G. Kanu⁴, B. Ekitli⁵, A. Aubert⁵, S. Disch⁴, O. Gutfleisch⁵, K. Skokov⁵, B. Gault³, M. Farle¹, R. E. Dunin-Borkowski²¹Faculty of Physics and Center for Nanointegration (CENIDE), University Duisburg Essen, Duisburg, Germany, ²Ernst Ruska-Centre for Microscopy and Spectroscopy with Electrons, Forschungszentrum Jülich, Jülich, Germany, ³Max-Planck-Institut für Nachhaltige Materialien, Düsseldorf, Germany, ⁴Faculty of Chemistry and Center for Nanointegration (CENIDE), University Duisburg Essen, Essen, Germany, ⁵Institute of Materials Science, Technische Universität Darmstadt, Darmstadt, Germany[View Digest Text](#)**SESSION FG: MAGNETO-CALORIC MATERIALS**

Chair(s): O. Gutfleisch, Material Science, TU Darmstadt, Darmstadt, Germany

Thursday, April 16, 2026

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Exchange 10

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FG-02. Investigation of High Entropy Alloys as low temperature magnetocaloric materialsD. Oksuz, D. Wright, Y. Azakli, T. Wilkinson, L. Ellwood, N. Morley

Materials Science and Engineering, University of Sheffield, Sheffield, United Kingdom

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01:45 PM-02:00 PM

FG-03. Study of Thermal Hysteresis in FeRh Films Under Fast Temperature Modulation of the Phase TransitionA. Pecheux^{2,3,1}, L. Thevenard^{7,6}, J. A. Arregi^{4,5}, V. Uhlir^{4,5}, M. Almanza^{2,3}, D. Fournier^{7,6}, C. Gourdon^{7,6}, M. LoBue^{1,2,3}¹CNRS - SATIE, Gif-sur-Yvette, France, ²Université Paris-Saclay, Gif-sur-Yvette, France, ³ENS Paris Saclay, Gif-sur-Yvette, France, ⁴CEITEC BUT, Brno, Czechia, ⁵Brno University of Technology, Brno, Czechia, ⁶Sorbonne Université, Paris, France, ⁷CNRS - Institut de Nanosciences de Paris, Paris, France[View Digest Text](#)

02:00 PM-02:15 PM

FG-04. Unveiling the potential of NdPO₄ magnetocaloric phases in cryogenic refrigerationM. Balli^{1,2}, L. Attou¹, S. Bouzarmine^{1,3}, S. Oubad¹, K. El Maalam⁴, P. Fournier², S. Mangin³¹International University of Rabat, Rabat, Morocco, ²Institut Quantique, Université de Sherbrooke, Sherbrooke, Quebec, Canada, ³Université de Lorraine, CNRS, ILL, Nancy, France, ⁴MAScIR, Mohammed VI Polytechnic University, Ben Guerir, Morocco[View Digest Text](#)

02:15 PM-02:30 PM

FG-05. The Key Parameters of the Shape Anisotropy-based Rotating Magnetocaloric Effect : a Gd Case studyR. Pinto¹, R. Almeida¹, J. Silva¹, J. Revuelta-Losada², V. Franco², J. Law², H. Souza³, R. Kiefe³, J. Amaral³, N. Dempsey⁴, A. Pires¹, G. Oliveira¹, J. Ventura¹, J. P. Araújo¹, J. H. Belo¹¹IFIMUP – Institute of Physics for Advanced Materials, Nanotechnology and Photonics, Department of Physics and Astronomy, Faculty of Sciences, University of Porto, Porto, Portugal, ²Multidisciplinary Unit for Energy Science (MUFENS), Departamento de Física de la Materia Condensada, ICMS-CSIC, Universidad de Sevilla, Sevilla University, Sevilla, Spain, ³Department of Physics and CICECO, University of Aveiro, University of Aveiro, Aveiro, Portugal, ⁴University Grenoble Alpes, CNRS, Institut Néel CNRS, Grenoble, France[View Digest Text](#)

02:30 PM-02:45 PM

FG-08. Lock-In Thermography for Studying the Reversibility and Thermal Hysteresis of Magnetocaloric MaterialsJ. Revuelta-Losada, A. N. Khan, L. M. Moreno-Ramírez, J. Law, V. Franco

University of Seville, Sevilla, Sevilla, Spain

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02:45 PM-03:00 PM

FG-09. Enhanced local homogeneity obtained by induction melting for optimizing reversible magnetocaloric response in all-d-metal Ni(Co)-Mn-Ti Heusler alloysA. N. Khan¹, L. M. Moreno-Ramírez¹, F. García-García², M. Varela², J. Revuelta-Losada¹, J. Law¹, V. Franco¹¹University of Seville, Sevilla, Sevilla, Spain, ²Complutense University of Madrid, Madrid, Spain[View Digest Text](#)**SESSION FH: MAGNETIC LAYERED SYSTEMS AND THEIR APPLICATIONS**Chair(s): C. Kinane, *ISIS, Reflectivity, Rutherford Appleton Lab, Abingdon, United Kingdom*

Thursday, April 16, 2026

01:30 PM-03:45 PM

Exchange 11

01:30 PM-02:00 PM

FH-01. Unconventional magnetic field sensors with flexibility, transparency, and eco-sustainabilityR. Xu*Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany*[View Digest Text](#)

02:00 PM-02:15 PM

FH-02. A three-dimensional approach for dynamic control of domain-wall motion in magnetic multilayersX. Yang², B. Paikaray¹, G. Bernard², J. Grollier¹, V. Cros¹, N. Reyren¹, L. Diez²¹Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Paris, France, ²Centre de Nanosciences et de Nanotechnologies, CNRS, Université Paris-Saclay, Paris, France[View Digest Text](#)

02:15 PM-02:30 PM**FH-03. Induced In-Plane Anisotropy by Parallel Stripe Domains in Tilted and high PMA Systems**P. Heinig^{1,2}, J. O. Oyuga¹, R. Salikhov², O. Hellwig^{1,2,3}¹Institut of Physics, Chemnitz University of Technology, Chemnitz, Saxony, Germany, ²Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Saxony, Germany, ³Center for Materials, Architectures and Integration of Nanomembranes (MAIN), Chemnitz University of Technology, Chemnitz, Saxony, Germany[View Digest Text](#)**02:30 PM-02:45 PM****FH-04. Role of Tungsten Phase in Stabilizing Skyrmions in W-Based Multilayers**S. Thyagarajan Sumaraj³, G. Atcheson³, I. Trikoilis Koll³, L. Malucelli³, S. Auffret³, L. Ranno², F. Ibrahim³, M. Chshiev³, K. Garello³, J. Fischer³, H. Béa^{3,1}¹Institut Universitaire de France (IUF), Paris, France, ²Univ. Grenoble Alpes, CNRS, Néel Institute, Grenoble, France, ³University Grenoble Alpes, CEA, CNRS, Spintec, Grenoble, France[View Digest Text](#)**02:45 PM-03:00 PM****FH-05. Compensation-Like Temperature and Field-Induced Spin-Flip of the Tm Sublattice in Strained TmIG Thin Films**C. C. Soares^{3,2,1}, T. J. Mori², F. Béron¹, J. S. Moodera^{5,4}, J. Criginski Cezar², J. Brandao², G. Vilela^{3,5,6}¹Universidade Estadual de Campinas, Campinas, Sao Paulo, Brazil, ²Laboratório Nacional de Luz Síncrotron, Nacional de Pesquisa em Energia e Materiais, Campinas, São Paulo, Brazil, ³Física de Materiais, Universidade de Pernambuco, Recife, Pernambuco, Brazil, ⁴Physics, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States, ⁵Plasma Science and Fusion Center and Francis Bitter Magnet Laboratory, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States, ⁶Center for Advanced Semiconductor Materials and Devices, State University of New York Polytechnic Institute, Utica, New York, United States[View Digest Text](#)**03:00 PM-03:15 PM****FH-06. Stabilizing Skyrmions by Ion Irradiation in X/CoFeB/MgO Thin Films**V. Ahrens, M. Wilke, T. Mohr, M. Becherer

Department of Electrical Engineering, Technical University of Munich, Garching Bei München, Germany

[View Digest Text](#)**03:15 PM-03:30 PM****FH-08. Balancing Permeability and Resistivity in FeCoB–AlN Nanogranular Thin Films for Next-Generation Power Delivery**R. Anjum, G. Wei, R. Sai

Tyndall National Institute, Cork, Ireland

[View Digest Text](#)**WL: WOHLFARTH LECTURE**

Chair(s): L. O'Brien, University of Liverpool, Liverpool, United Kingdom

Thursday, April 16, 2026

04:00 PM-05:00 PM

Exchange Auditorium

WL-01. Spin-orbit Torques for Magnetisation Control and Nonequilibrium MagnonicsH. Kurebayashi

UCL/Tohoku University, Sendai, Japan

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IEEE AWARDS CEREMONY

Co-Chair(s): Adekunle Adeyeye, Magnetics Society Honors and Awards Chair, *Durham University*;
and Ron Goldfarb, Magnetics Society President, *NIST*

Thursday, April 16, 2026

05:00 PM-06:00 PM

Exchange Auditorium

The IEEE Magnetics Society will recognize the winners of the following:

- Achievement Award
- Mid-Career Award
- Early-Career Award
- Distinguished Service Award

Awards and recognition will also be given to the New Fellows, Distinguished Lecturers, Best Student Oral Presentation Finalists, Neil Smith Award Finalists and Most Compelling Image Finalists.

PL: PLENARY LECTURE

Chair: T. Thomson, *Dept. of Computer Science, University of Manchester, Manchester, United Kingdom*

Thursday, April 16, 2026

06:00 PM-07:00 PM

Exchange Auditorium

06:00 PM-07:00 PM

Magnetic van der Waals Heterostructures

Prof. Sir Kostya Novoselov

National University of Singapore

PLENARY RECEPTION

Thursday, April 16, 2026

07:00 PM-10:00 PM

Offsite - The National Football Museum

SESSION GA: MAGNETISM AND NANOMATERIALS: A PERFECT MATCH FOR LIFE SCIENCE APPLICATIONSChair(s): M. Salvador, *Nanoscience and Nanotechnology, Institute of Materials Science of Madrid (ICMM-CSIC), Madrid, Spain*

Friday, April 17, 2026

08:30 AM-12:00 PM

Charter 1

08:30 AM-09:00 AM**GA-01. Photothermal Effect of Magnetic Nanoparticles for Biosensing in Paper-Supported Rapid Tests**V. Pilati¹, M. M. Fadel¹, L. B. Fraile¹, L. Marcano¹, A. M. Pérez-Mas¹, M. Salvador², J. L. Marques¹, M. Rivas¹¹*Department of Physics, Universidad de Oviedo, Gijón, Spain,* ²*Institute of Materials Science of Madrid (ICMM-CSIC), Madrid, Spain*[View Digest Text](#)**09:00 AM-09:30 AM****GA-02. Modulation of Ion Channel Activity and Calcium Signaling with Nanomagnets**V. Zablotskii*Institute of Physics of the Czech Academy of Sciences, Prague, Czechia*[View Digest Text](#)**09:30 AM-10:00 AM****GA-04. Magnetic nanostructures for efficient thermal therapies**V. Pilati¹, M. Vardanega¹, M. González de la Vega¹, A. M. Pérez-Mas¹, M. Fernández García¹, D. Arranz², J. L. Marques¹, I. Orue³, I. Rodrigo⁴, N. García de Iturrospe⁴, J. C. Martínez-García¹, M. Rivas¹, L. Marcano¹¹*Physics, Oviedo University, Gijón, Asturias, Spain,* ²*Instituto de Magnetismo Aplicado (UCM-ADIF-CSIC), Madrid, Spain,* ³*SGIKER, Universidad del País Vasco/Euskal Herriko Unibertsitatea, Leioa, Spain,* ⁴*Departamento de Física, Universidad del País Vasco, Leioa, Spain*[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-11:00 AM**GA-05. Advanced magnetic nanomaterials for early biomarker detection in gastrointestinal surgery**Z. Altintas*Bioinspired Materials and Biosensor Technologies, Kiel University, Kiel, Germany*[View Digest Text](#)**11:00 AM-11:30 AM****GA-06. Design of magnetic nanozymes for environmental remediation**N. Nuñez^{1,2,3}, V. M. Sánchez^{4,5}, E. Lima Jr.^{1,2}, J. S. Grassano^{4,5}, A. Gallo-Cordova⁶, P. Lustemberg⁷, M. A. Morales Ovalle^{1,2,3}, M. Vasquez Mansilla^{1,2,3}, J. Daneri^{4,5}, D. A. Estrin^{4,5}, M. d. Morales⁶, M. V. Ganduglia-Pirovano⁷, E. L. Winkler^{1,2,3}¹*Magnetismo y Materiales Magnéticos, Centro Atómico Bariloche, S. C. de Bariloche, Rio Negro, Argentina,* ²*Instituto de Nanociencia y Nanotecnología, CNEA/CONICET, S. C. de Bariloche, Argentina,* ³*Instituto Balseiro, CNEA/UNCuyo, S. C. de Bariloche, Argentina,* ⁴*Instituto de Química Física de los Materiales, Medio Ambiente y Energía, CONICET/UBA, Buenos Aires, Argentina,* ⁵*Departamento de Química Inorgánica, Analítica y Química Física, UBA, Buenos Aires, Argentina,* ⁶*Instituto de Ciencia de Materiales de Madrid, ICMM-CSIC, Madrid, Spain,* ⁷*Instituto de Catálisis y Petroleoquímica-CSIC, Madrid, Spain*[View Digest Text](#)

SESSION GB: TODAY'S DEBATES IN ORBITRONICSChair(s): N. Reyren, *Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, CNRS, Palaiseau, France*

Friday, April 17, 2026

08:30 AM-12:00 PM

Exchange Auditorium

08:30 AM-09:00 AM**GB-01. From Spintronics to Orbitronics: a Quantum Kinetic Perspective**T. Valet^{1,2}, H. Jaffrès³, V. Cros³, R. Raimondi⁴¹*MPhysX OÜ, Tallinn, Estonia*, ²*AIMR & CSIS, Tohoku University, Sendai, Japan*, ³*Laboratoire Albert Fert, CNRS Thales, Palaiseau, France*, ⁴*Dipartimento di Matematica e Fisica, Università Roma Tre, Roma, Italy*[View Digest Text](#)**09:00 AM-09:30 AM****GB-02. Electron orbital relaxation in solids**H. Lee*Department of Physics, POSTECH, Pohang, Gyeongbuk, Korea (the Republic of)*[View Digest Text](#)**09:30 AM-10:00 AM****GB-03. Evidence for strong localization of orbital polarization**L. Zhu*Institute of Semiconductors, Chinese Academy of Sciences, Beijing, China*[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-11:00 AM**GB-04. Experimental exploration of orbital current generation**K. Ando*Keio University, Yokohama, Japan*[View Digest Text](#)**11:00 AM-11:30 AM****GB-05. Production, conversion and detection of orbital polarization created by FMR or thermal gradient**M. S. Yactayo^{1,2}, A. Pezo^{3,6}, J. Ampuero¹, M. Tian⁴, L. Badie¹, J. Quispe-Marcatoma², C. Landauro Saenz², Y. Xu⁵, S. Petit-Watelot¹, M. Hehn¹, A. Fert³, J. Rojas-Sanchez¹¹*Université de Lorraine, CNRS, Institut Jean Lamour – CNRS:UMR7198, Nancy, France*, ²*Universidad Nacional Mayor de San Marcos, Lima, Peru*, ³*Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Paris, France*, ⁴*Southeast University, Nanjing, China*, ⁵*MIIT Key Laboratory of Spintronics, School of Integrated Circuit Science and Engineering, Beihang University, Beijing, China*, ⁶*Institute for Solid State Physics, University of Tokyo, Tokyo, Japan*[View Digest Text](#)**11:30 AM-12:00 PM****GB-06. Long-Range Orbital Transport or Local Generation? Insights from Nonlocal Measurements**Y. Otani^{1,2}, L. Liao^{1,3}¹*ISSP, University of Tokyo, Kashiwa, Japan*, ²*Physics, Tohoku University, Sendai, Miyagi, Japan*, ³*Physics, Shanghai Tech, Shanghai, China*[View Digest Text](#)

SESSION GC: ANTIFERROMAGNETIC AND FERRIMAGNETIC SPINTRONICSCo-Chair(s): V. Baltz, *SPINTEC, Grenoble, France* and A. Chekhov, *Freie Universität Berlin, Berlin, Germany*

Friday, April 17, 2026

08:30 AM-12:00 PM

Charter 2

08:30 AM-09:00 AM**GC-01. Theory of circular dichroism in resonant inelastic x-ray scattering**M. Furo², A. Hariki², J. Kuneš¹¹*Institute of Condensed Matter Physics, Masaryk University, Brno, Czechia*, ²*Osaka Metropolitan University, Osaka, Japan*[View Digest Text](#)**09:00 AM-09:15 AM****GC-02. Interfacial Spin Configurations and the Microscopic Origin of Exchange Bias at the IrMn/CoFeB Interface**J. Liu^{1,2,3}, X. Chen⁴, J. Lu^{1,2,3}, W. Li^{1,2,3}, Z. Liu^{1,2,3}, Z. Yongzhuo^{1,2,3}, P. Bencok⁵, P. Steadman⁵, W. Liu⁶, W. Zhao^{1,2,3}, S. Peng^{1,2,3}¹*Fert Beijing Institute, School of Integrated Circuit Science and Engineering, Beihang University, Beijing, China*, ²*Hefei Innovation Research Institute, Beihang University, Hefei, Anhui, China*, ³*National Key Laboratory of Spintronics, Hangzhou International Innovation Institute, Beihang University, Hangzhou, Zhejiang, China*, ⁴*Department of Physics, Royal Holloway University of London, Surrey, United Kingdom*, ⁵*Diamond Light Source, Didcot, United Kingdom*, ⁶*Department of Electrical Engineering and Electronics, University of Liverpool, Liverpool, United Kingdom*[View Digest Text](#)**09:15 AM-09:30 AM****GC-03. Unconventional spin Hall magnetoresistance in a noncollinear antiferromagnet/heavy-metal stack**T. Uchimura¹, J. Han¹, P. Tang¹, J. Yoon¹, Y. Takeuchi², Y. Yamane¹, S. Kanai¹, G. Bauer¹, H. Ohno¹, S. Fukami¹¹*Tohoku University, Sendai, Japan*, ²*National Institute for Materials Science (NIMS), Tsukuba, Japan*[View Digest Text](#)**09:30 AM-09:45 AM****GC-04. Orientation-Engineered Chiral Antiferromagnets on Si for Spin-Orbit Torque Switching Exceeding 70%**Y. Lin¹, Y. Huang¹, J. Chen¹, S. Huang⁵, J. Hsu², H. Ohmori⁴, K. Kawabata⁴, T. Kishi⁴, Y. Huang³, Y. Tseng^{1,2}¹*Materials Science & Engineering, National Yang Ming Chiao Tung University, Hsinchu, Taiwan*, ²*Industry Academia Innovation School, Hsinchu, Taiwan*, ³*Taiwan Semiconductor Research Institute, Hsinchu, None Selected, Taiwan*, ⁴*TopoLogic Incorp., Tokyo, Japan*, ⁵*International College of Semiconductor Technology, Hsinchu, Taiwan*[View Digest Text](#)**09:45 AM-10:00 AM****GC-05. Mn/Pt Multilayer Stacks for Tunable Noncollinear Antiferromagnet**B. Lim¹, D. Lin¹, H. Tan¹, Y. Hnin¹, M. Zhang¹, J. Soh¹, J. Louremban¹, H. Tan¹, L. Huang¹, T. Zhao², R. Laskowski³, K. Khoo³, S. Chen¹, P. Ho¹¹*Institute of Materials Research and Engineering, Singapore, Singapore*, ²*National University of Singapore, Singapore, Singapore*,³*Institute of High Performance Computing, Singapore, Singapore*[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM**GC-06. Rare-Earth Iron Garnets for Spintronics: Advances in Interface Engineering, Magnetization Control, and Electrical Detection**C. Avci, W. Janus*Institut de Ciència de Materials de Barcelona, Bellaterra, BARCELONA, Spain*[View Digest Text](#)

10:45 AM-11:00 AM

GC-07. Magnetization and Anisotropy Variations in Compositionally Graded Rare-Earth Transition-Metal Alloy Thin Films for Spintronics

D. Rianto¹, [A. W. Hodgkiss](#)¹, B. Nicholson¹, A. Caruana², C. Kinane², L. Bouchenoire³, P. Michalowski⁴, T. Hase⁵, D. Atkinson¹
¹Physics, Durham University, Durham, United Kingdom, ²ISIS, Reflectivity, Rutherford Appleton Laboratory, Oxfordshire, United Kingdom, ³XMaS, ESRF, Grenoble, France, ⁴Institute of Microelectronics and Photonics, Lukasiewicz Research Network, Warsaw, Poland, ⁵Physics, University of Warwick, Coventry, United Kingdom

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11:00 AM-11:15 AM

GC-10. Substrate-controlled strain and magnetic anisotropy in epitaxial YIG films

[L. M. Solis](#)^{1,2}, J. Santiso³, F. Bonetto^{4,5}, P. Vavassori^{6,7}, J. Rojas-Sanchez⁸, S. Petit-Watelot⁸, L. Steren¹, M. Aguirre^{2,9,10}
¹Institute of Nanoscience and Nanotechnology CNEA/CONICET, Ciudad Autónoma de Buenos Aires, Ciudad Autónoma de Buenos Aires, Argentina, ²Instituto de Nanociencia y Materiales de Aragón, Zaragoza, Spain, ³Catalan Institute of Nanoscience and Nanotechnology (ICN2), Bellaterra, Spain, ⁴Instituto de Física del Litoral (CONICET-UNL), Santa Fe, Argentina, ⁵Institute of Environmental Technology, Ostrava-Poruba, Czechia, ⁶CIC nanoGUNE BRTA, Donostia-San Sebastián, Spain, ⁷IKERBASQUE, Bilbao, Spain, ⁸Institut Jean Lamour, Nancy, France, ⁹Departamento de Física de la Materia Condensada, Zaragoza, Spain, ¹⁰Laboratorio de Microscopías Avanzadas, Zaragoza, Spain

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SESSION GD: QUANTUM, MAGNONIC, AND UNCONVENTIONAL COMPUTING

Chair(s): J. Atulasimha, Virginia Commonwealth University, Richmond, Virginia, United States

Friday, April 17, 2026

08:30 AM-12:00 PM

Charter 3

08:30 AM-09:00 AM

GD-01. Spontaneous Emergence of Phase Coherence in a Quasiparticle Bose–Einstein Condensate

[B. Hillebrands](#)¹, M. Koster¹, M. R. Schweizer¹, T. B. Noack¹, V. I. Vasyuchka¹, D. A. Bozhko², M. Weiler¹, A. A. Serga¹, G. von Freymann¹

¹Physics, RPTU Kaiserslautern, Kaiserslautern, Germany, ²Department of Physics and Energy Science, University of Colorado, Center for Magnetism and Magnetic Nanostructures, Colorado Springs, Colorado, United States

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09:00 AM-09:30 AM

GD-02. Interplay of internal and external coupling phases in cavity magnonics: from level repulsion to attraction

G. Bourcin³, M. P. Avicena^{1,2}, V. Vlaminc^{1,2}, J. Bourhill⁴, [V. M. Castel](#)^{1,2}

¹Micro-ondes, IMT Atlantique Bretagne-Pays de la Loire - Campus de Brest, Plouzané, Finistère, France, ²LABSTICC, Brest, France, ³KWAN-TEK, Ploemeur, France, ⁴Quantum Technologies and Dark Matter Labs, University of Western Australia, 35 Stirling Hwy, 6009 Crawley, Perth, Western Australia, Australia

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09:30 AM-09:45 AM

GD-03. Dispersion-tunable Low-loss Spin-wave Waveguides Fabricated by Maskless Ion Implantation

[J. Bensmann](#)¹, R. Schmidt¹, K. Nikolaev², D. Raskhodchikov¹, S. Choudhary¹, R. Bhardwaj¹, S. Taheriniya^{1,3,4}, A. Varri^{1,3}, S. Niehues¹, A. El Kadri¹, J. Kern¹, W. Pernice^{1,3,4}, S. Demokritov², V. E. Demidov², S. Michaelis de Vasconcellos¹, R. Bratschitsch¹

¹Institute of Physics and Center for Nanotechnology (CeNTech), University of Münster, Münster, Germany, ²Institute of Applied Physics, University of Münster, Münster, Germany, ³Center for Soft Nanoscience, University of Münster, Münster, Germany, ⁴Heidelberg University, Kirchhoff-Institute for Physics, Heidelberg, Germany

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09:45 AM-10:00 AM

GD-04. Phase-Controlled Spin-Wave / CMOS Hybrid System

E. Ciubotaru¹, A. Bunea², N. Naskas³, I. Tsakiridis³, N. Alexiou³, G. Kousparis³, G. Ntounas³, K. Kontaxis³, D. Kalampakas³, P. Kassanos³, L. Borchardt⁴, M. Hempel⁴, A. Micelli^{1,6}, X. Sun¹, F. Kohl⁵, B. Heinz⁵, P. Anagnostou⁷, S. Manton⁸, P. Bortolotti⁸, D. Neculoiu², P. Pirro⁵, S. Cotofana⁷, C. Adelman¹

¹imec, Leuven, Flemish Brabant, Belgium, ²National Institute for Research and Development in Microtechnologies – IMT Bucharest, Bucharest, Romania, ³AKRONIC, Athens, Greece, ⁴Fraunhofer IZM, Berlin, Germany, ⁵University of Kaiserslautern-Landau and Landesforschungszentrum OPTIMAS, Kaiserslautern, Germany, ⁶KU Leuven, Leuven, Belgium, ⁷Delft University of Technology, Delft, Netherlands, ⁸Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France

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10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM

GD-05. Magnonic Physical Reservoir Computing Employing the Three-wave Decay of Spin Waves

M. Kostylev, K. Tempest

University of Western Australia, Crawley, Western Australia, Australia

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10:45 AM-11:00 AM

GD-06. Nonlinear Dynamics in Magnonic Fabry-Pérot Resonators: Low-Power Neuron-like Activation and Transmission Suppression

A. Lutsenko¹, K. Fripp², L. Flajsman¹, A. Shytov², V. Kruglyak², S. van Dijken¹

¹Applied Physics, Aalto University, Espoo, Finland, ²University of Exeter, Exeter, United Kingdom

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11:00 AM-11:15 AM

GD-07. Combining Chiral Magnonic Resonators with Machine Learning in Multiple Input Multiple Output Functional Magnonic Circuits

K. Fripp¹, Y. Wang², O. Kyriienko², A. Shytov¹, V. Kruglyak¹

¹University of Exeter, Exeter, United Kingdom, ²University of Sheffield, Sheffield, United Kingdom

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11:15 AM-11:30 AM

GD-08. Realization of Inverse-Design Magnonic Logic Gates

E. Majcen^{1,2}, N. Zenbaa^{1,2}, C. Abert^{1,3}, F. Bruckner^{1,3}, N. J. Mauser^{3,4}, T. Schrefl^{3,5}, Q. Wang⁶, D. Suess^{1,3}, A. Chumak^{1,3}

¹Faculty of Physics, University of Vienna, Vienna, Austria, ²Vienna Doctoral School in Physics, University of Vienna, Vienna, Austria, ³Research Platform Mathematics–Magnetism–Materials, University of Vienna, Vienna, Austria, ⁴Faculty of Mathematics, University of Vienna, Vienna, Austria, ⁵Center for Modelling and Simulation, Donau-Universität Krems, Wiener Neustadt, Austria, ⁶School of Physics, Huazhong University of Science and Technology, Wuhan, China

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11:30 AM-11:45 AM

GD-09. Experimental Implementation of a Magnonic Neural Network Using the Discrete k-Space Spectrum of (Bi)YIG Microdisks

D. Zehner¹, P. Che¹, J. Ben Youssef², M. Muñoz³, R. Lebrun¹, D. Sanz Hernandez¹, A. Papp^{4,5}, V. Cros¹, P. Bortolotti¹, I. Boventer¹, A. Anane¹

¹Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France, ²LabSTICC, CNRS, Université de Bretagne Occidentale, Brest, France, ³Instituto de Tecnologías Físicas y de la Información (CSIC), Madrid, Spain, ⁴Faculty of Information Technology and Bionics, Pázmány Péter Catholic University, Budapest, Hungary, ⁵Jedlik Innovation Kft., Budapest, Hungary

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11:45 AM-12:00 PM

GD-10. Complexity Analysis of FMR Driven Chaotic Magnetization Dynamics in a Nanodisk

A. Kolli^{2,1}, H. Merbouche^{2,1}, G. de Loubens^{2,1}, P. Colin³, S. Jovanovic³, S. Petit-Watelot³, D. Rontani⁴, S. Perna⁵

¹Physics, Université Paris-Sud, Paris, Ile-de-France, France, ²CEA Paris-Saclay, Gif-sur-Yvette, France, ³Université de Lorraine, Nancy, France, ⁴CentraleSupélec Metz, Metz, France, ⁵University of Naples, Naples, Italy

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SESSION GE: INDUCTION AND SPECIAL MACHINES

Chair(s): H. Hamzehbahmani, *Durham University, Durham, United Kingdom*

Friday, April 17, 2026

08:30 AM-12:00 PM

Charter 4

08:30 AM-08:45 AM

GE-01. An Approach Toward AC Power Loss Reduction in Additively Manufactured Winding for Electrical Machine

Z. Ahmad, A. Kallaste, M. Naseer, T. Vaimann, S. Hussain

Department of Electrical Power Engineering and Mechatronics, Tallinn University of Technology, Tallinn, Estonia

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08:45 AM-09:00 AM

GE-02. A Permeance-Based Grey-Box Modeling Framework for Variable Flux Reluctance Machines Using SINDy

G. Bayazit, E. Ilhan Caarls, E. A. Lomonova

Eindhoven University of Technology, Eindhoven, North Brabant, Netherlands

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09:00 AM-09:15 AM

GE-03. High-Frequency Cable-Motor Impedance Modelling and Optimization for Transient Voltage Stress Mitigation in Induction Machines

M. Sardar, T. Vaimann, L. Kütt, B. Asad, A. Kallaste, M. Naseer

Department of Electrical Power Engineering and Mechatronics, Tallinn University of Technology, Tallinn, Estonia

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09:15 AM-09:30 AM

GE-04. Localised Flux Density Measurement: A New Diagnostic Indicator for Inter-Laminar Faults in Magnetic Cores with Non-Oriented Electrical Steels

H. Hamzehbahmani

Durham University, Durham, United Kingdom

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09:30 AM-09:45 AM

GE-05. Study on 2-Pole Induction Motor with Concentrated Winding

J. Asami¹, N. Niguchi¹, T. Yamamoto², T. Minari²

¹Osaka University, Suita, Osaka, Japan, ²Sumitomo Heavy Industries, Ltd, Yokosuka, Japan

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09:45 AM-10:00 AM

GE-06. A Concentrated-Winding Rotary-Linear Generator with Tangential and Radial PMs for Wind-Wave Harvesting

G. Ma^{1,2}, Z. Li², H. Zhang², S. Niu², J. Yuan¹

¹Electrical Engineering and Automation, Wuhan University, Wuhan City, Hubei Province, China, ²Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, Kowloon, Hong Kong

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10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM

GE-08. Analytical Modelling and Design of a Limited Angle Rotary Voice Coil Actuator

E. Cevik¹, M. Gulec³, M. Aydin²

¹MDS Motor Ltd., Kocaeli, Turkey, ²Kocaeli University, Kocaeli, Kocaeli, Turkey, ³Ghent University, Ghent, Belgium

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10:45 AM-11:00 AM

GE-09. Novel Modular Dual-PM Yokeless Stator Dual-Rotor Machine with Improved Torque Density

F. Ni, Z. Li, S. Niu, Z. Huang

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, Hong Kong

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11:00 AM-11:15 AM

GE-10. Inter-Turn Short Circuit Diagnosis for Dual Three-Phase Machine Based on High-Frequency Voltage Injection Considering Series Winding Magnetic Coupling

Y. Sui^{1,2}, L. Liu¹, P. Zheng¹, X. Qiu^{1,3}, W. Liu¹, Y. Shijie¹

¹School of Electrical Engineering and Automation, Harbin Institute of Technology, Harbin, China, ²Zhengzhou Research Institute, Harbin Institute of Technology, Zhengzhou, China, ³CSG Shenzhen Power Supply Co., Ltd., Shenzhen, China

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11:15 AM-11:30 AM

GE-11. Open-Circuit Fault Diagnosis Method for Dual Three-Phase PMSM Based on Harmonic Subspace Current Features

Y. Sui^{1,2}, L. Liu¹, P. Zheng¹, X. Qiu^{1,3}, W. Liu¹, M. Wang¹

¹School of Electrical Engineering and Automation, Harbin Institute of Technology, Harbin, China, ²Zhengzhou Research Institute, Harbin Institute of Technology, Zhengzhou, China, ³CSG Shenzhen Power Supply Co., Ltd., Shenzhen, China

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SESSION GF: MAGNETO-ELASTICS AND NEW COUPLED MAGNETIC PHENOMENA II

Chair(s): N. Morley, *Materials Science and Engineering, University of Sheffield, Sheffield, United Kingdom*

Friday, April 17, 2026

08:30 AM-12:00 PM

Exchange 9

08:30 AM-09:00 AM

GF-01. Magnet-Free Integrated Photonic Isolators achieved via Magnetic Design

B. Stadler¹, P. Liu¹, B. Moghal¹, S. Ghosh², R. Das², J. Bellotti³, Y. Chen³

¹University of Minnesota, Minneapolis, Minnesota, United States, ²Tyndall National Institute, Cork, Ireland, ³Coherent, Budd Lake, New Jersey, United States

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09:00 AM-09:15 AM

GF-02. Integrating High-Throughput DFT Descriptors with Machine Learning for Efficient Materials Discovery

Z. Cui, C. R. Muñoz, J. Law, V. Franco

University of Seville, Sevilla, Spain

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09:15 AM-09:30 AM

GF-04. 4-inch wafer-scale monolithic integration and magneto-optical ellipsometry characterization of Ce:YIG films on silicon

T. Zhang¹, Y. Yang², W. Yang³, J. Wang¹, Z. Wei¹, D. Wu¹, Y. Shuai¹, L. Bi¹

¹University of Electronic Science and Technology of China, Chengdu, Sichuan, China, ²Institute of Optics and Electronics, Chengdu, Sichuan, China, ³University of Hong Kong, Hong Kong, China

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09:30 AM-09:45 AM

GF-05. Topological Surface Magnon-Polariton in an Insulating Canted Antiferromagnet

F. Zhong¹, W. Li²

¹University of Cambridge, Cambridge, England, United Kingdom, ²Beihang University, Beijing, China

[View Digest Text](#)

09:45 AM-10:00 AM

GF-06. Effect of Praseodymium Addition on Magnetostriction of Fe–Al Alloys

T. Okada, Y. Azakli, N. Morley

School of Chemical, Materials and Biological Engineering, University of Sheffield, Sheffield, United Kingdom

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10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM

GF-07. Simultaneous Multi-Property Analysis of Magneto-Structural Transitions at ESRF ID12

A. Aubert¹, K. Skokov¹, G. Gomez², F. Wilhelm², H. Wende³, A. Rogalev², K. Ollefs³, O. Gutfleisch¹

¹Technische Universität Darmstadt, Darmstadt, Germany, ²European Synchrotron Radiation Facility, 38043 Grenoble, France, Grenoble, France, ³Faculty of Physics, University of Duisburg-Essen, Duisburg, Germany

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10:45 AM-11:00 AM

GF-08. Influence of Composition on the Intrinsic Characteristic of the Magnetoelastic Phase Transitions of Bulk Fe–Rh

K. Padron Aleman^{1,2}, G. Cuello¹, J. L. Sanchez Llamazares³, P. Álvarez-Alonso², P. Gorria²

¹Diffraction, Institut Laue Langevin, Grenoble, France, ²Physics, University of Oviedo, Oviedo, Spain, ³Materiales Avanzados, Instituto Potosino de Investigación Científica y Tecnológica A.C. (IPICYT), San Luis Potosí, Mexico

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11:00 AM-11:15 AM

GF-10. Strain-Gradient-Controlled Magnetization Reversal in Multilayer FeGaB for Lamb Wave Magnetoelastic Sensors

Y. Wang^{1,2,3}, M. Du^{1,4}, J. Li^{1,4}, D. Luo^{1,4}, T. Wu^{1,2,3}

¹ShanghaiTech University, Shanghai, China, ²Shanghai Institute of Microsystem and Information Technology, Shanghai, China, ³University of Chinese Academy of Sciences, Beijing, China, ⁴Shanghai Engineering Research Center of Energy Efficient and Custom AI IC, Shanghai, China

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11:15 AM-11:30 AM

GF-11. Characterization of powdered magnetostrictive materials of Fe-Ga for additive manufacturing

L. Chen^{1,2}, M. Sato³, N. Yodoshi⁴, Y. Su⁵, R. Umetsu^{1,6}

¹Institute for Material Research, Tohoku University, Sendai shi, Miyagi, Japan, ²Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan, ³Graduate School of Systems Science and Technology, Akita Prefectural University, Yurihonjo, Akita, Japan, ⁴Faculty of Engineering, Kyushu University, Fukuoka, Fukuoka, Japan, ⁵Technologies Corporation, NTT DATA XAM, Osaka, Osaka, Japan, ⁶Centre for Science and Innovation in Spintronics, Tohoku University, Sendai, Miyagi, Japan

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SESSION GG: ENERGY, MICROWAVE AND SENSING APPLICATIONS IChair(s): K. Srinivasan, *Electrical and Computer Engineering, Boise State University, Boise, Idaho, United States*

Friday, April 17, 2026

08:30 AM-12:00 PM

Exchange 10

08:30 AM-08:45 AM**GG-01. Magnetic Topology Optimization of an Electromagnetic Harvester Tuned to In-Situ Stochastic Railway Vibrations**M. Mansattha¹, R. Dixon², E. Stewart¹¹*Electronic, Electrical and Systems Engineering, University of Birmingham, Birmingham, United Kingdom,* ²*School of Engineering, University of Birmingham, Birmingham, United Kingdom*[View Digest Text](#)**08:45 AM-09:00 AM****GG-02. Scalable magnetic tunnel junction arrays for wireless radiofrequency sensing and energy harvesting**A. Sandhu, R. Sharma, R. Sharma*Electrical Engineering, Indian Institute of Technology Ropar, Delhi, India*[View Digest Text](#)**09:00 AM-09:15 AM****GG-03. Broadband rectification with perpendicular magnetic tunnel junctions**S. K. Panigrahy, A. Purbawati*Univ. Grenoble Alpes, CEA, CNRS, Grenoble INP, SPINTEC, Grenoble, France*[View Digest Text](#)**09:15 AM-09:30 AM****GG-04. Optimal Impedance Matching Method of Magnetic Field Energy Harvesters for Railway Systems**P. Jeong, H. Lee, S. Ahn*Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea (the Republic of)*[View Digest Text](#)**09:30 AM-09:45 AM****GG-05. Anomalous Nernst Effect of Magnetic Multilayers with Flexible Substrate**P. Martinez Outomuro¹, C. Belloso¹, G. Lopez-Polin², D. Navas¹, A. Asenjo¹¹*Institute of Materials Science of Madrid (ICMM-CSIC), Madrid, Madrid, Spain,* ²*Universidad Autónoma de Madrid, Madrid, Spain*[View Digest Text](#)**09:45 AM-10:00 AM****GG-06. Exchange bias-based miniature magnetoelectric antennas for radio-frequency applications**P. Velvaluri^{2,1}, B. Luo², F. Gossing³, E. Mackensen³, I. Martos-Repath², S. Mahdi Seyed Abrishami², B. Davaji², D. Meyners³, J. McCord³, N. X. Sun²¹*University of Freiburg, Freiburg im Breisgau, Baden-Württemberg, Germany,* ²*Electrical and Computer Engineering, Northeastern University, Boston, Massachusetts, United States,* ³*Materials Science, Kiel University, Kiel, Schleswig-Holstein, Germany*[View Digest Text](#)**10:00 AM-10:30 AM**

Break

10:30 AM-10:45 AM**GG-07. Stress Monitoring Using Amorphous Glass-coated Microwire Assessed by Free Space Measurements at Microwaves**V. Zhukova^{4,1,3}, M. Ipatov⁵, A. Zhukov^{1,2,3}¹Dept. Appl. Phys., University of the Basque Country, San Sebastian, Spain, ²IKERBASQUE, Basque Foundation for Science, Bilbao, Spain, ³EHU Quantum Center, University of the Basque Country, San Sebastian, Spain, ⁴Dept. Polym. & Adv. Mater., University of the Basque Country, EHU, San Sebastian, Spain, ⁵General Magnetic Measurement Service of Advanced Research Facilities (SGlker), University of the Basque Country, EHU, San Sebastian, Spain[View Digest Text](#)**10:45 AM-11:00 AM****GG-08. Broadband double-layer electromagnetic wave absorber using Nd₂Fe₁₇N₃ with planar magnetocrystalline anisotropy**N. Mitsui, J. Akamatsu, S. Abe, R. Okazaki, N. Imaoka
Nichia Corporation, Anan, Tokushima, Japan[View Digest Text](#)**11:00 AM-11:15 AM****GG-09. Magnetic Pattern Classification Based on Three-Dimensional Field Sensing and Convolutional Neural Networks**T. Kubota¹, S. Akamatsu², H. Fukushima², T. Hojo^{1,3}, M. Endo¹, K. Fujiwara², T. Yoshidome^{3,1}, H. Wagatsuma², S. Kumagai², H. Matsuzaki², R. Otsuka⁴, K. Yokoi⁴, S. Oyagi⁴, I. Yamane⁴, J. Jinno⁴, K. Onishi⁴, Y. Ando^{1,3,5}¹Advanced Spintronics Medical Engineering, Tohoku University, Sendai, Miyagi, Japan, ²Spin Sensing Factory Corporation, Sendai, Japan, ³Department of Applied Physics, Tohoku University, Sendai, Japan, ⁴Otsuka Pharmaceutical Co., Ltd., Tokyo, Japan, ⁵Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Miyagi, Japan[View Digest Text](#)**11:15 AM-11:30 AM****GG-10. Deep learning based Point Cloud Classification of Magnetization Patterns Measured by Tunnel Magnetoresistance Sensors**T. Hojo^{1,2}, T. Kubota¹, H. Wagatsuma³, K. Fujiwara³, M. Endo¹, H. Fukushima³, T. Yoshidome^{2,1}, S. Kumagai³, H. Matsuzaki¹, K. Yokoi⁴, S. Oyagi⁴, R. Otsuka⁴, I. Yamane⁴, J. Jinno⁴, K. Onishi⁴, M. Oogane^{2,5}, Y. Ando^{1,5}¹Department of Advanced Spintronics Medical Engineering, Tohoku University, Sendai, Miyagi, Japan, ²Department of Applied Physics, Tohoku University, Sendai, Miyagi, Japan, ³Spin Sensing Factory Corporation, Sendai, Miyagi, Japan, ⁴Otsuka Pharmaceutical Co., Ltd., Tokushima, Tokushima, Japan, ⁵Center for Science and Innovation in Spintronics (Core Research Cluster) Organization for Advanced Studies, Tohoku University, Sendai, Miyagi, Japan[View Digest Text](#)**11:30 AM-11:45 AM****GG-11. 3D Flexible Ferrite Structures for Absorption, Non-reciprocity and Polarization Enhancement for Millimeterwave Applications**S. Akkapanthula, S. Sharma, S. Kagita
Indian Institute of Technology Tirupati, Tirupati, India[View Digest Text](#)**11:45 AM-12:00 PM****GG-12. Experimental and theoretical verification of the nonlinear Seebeck effect at room temperature**Y. Hirata¹, T. Kikkawa^{1,2}, H. Arisawa^{1,3}, E. Saitoh^{1,3,4}¹Applied Physics, University of Tokyo, Bunkyo-ku, Tokyo, Japan, ²ASRC, Japan Atomic Energy Agency, Ibaraki, Japan, ³CEMS, RIKEN, Saitama, Japan, ⁴Beyond AI, Tohoku University, Miyagi, Japan[View Digest Text](#)

SESSION GH: NEW APPROACHES IN SIMULATIONS OF MAGNETIC MATERIALSChair(s): S. Ruta, *Sheffield Hallam University, Sheffield, United Kingdom*

Friday, April 17, 2026

08:30 AM-12:00 PM

Exchange 11

08:30 AM-09:00 AM**GH-01. Regularized Micromagnetic Theory for Bloch Points**V. Kuchkin¹, A. Haller¹, A. Michels¹, T. L. Schmidt¹, N. Kiselev²¹*University of Luxembourg, Strassen, Luxembourg*, ²*PGI-1, Forschungszentrum Julich, Julich, Germany*[View Digest Text](#)**09:00 AM-09:15 AM****GH-02. Dynamic Atomistic Modelling of Domain Walls in Layered van der Waals Antiferromagnets**R. Rama-Eiroa^{1,2}¹*School of Physics and Astronomy, The University of Edinburgh, Edinburgh, Midlothian, United Kingdom*, ²*Higgs Centre for Theoretical Physics, Edinburgh, United Kingdom*[View Digest Text](#)**09:15 AM-09:30 AM****GH-03. A solution to the permalloy problem---a micromagnetic analysis with magnetostriction**A. Renuka Balakrishna*Materials, University of California, Santa Barbara, Santa Barbara, California, United States*[View Digest Text](#)**09:30 AM-09:45 AM****GH-04. Towards a MAGnetic Multiscale MOdelling Suite (MaMMoS)**H. Fangohr^{1,2,3}, S. J. Holt^{1,2}, M. Lang^{1,2}, S. A. Pathak^{1,2}, A. Petrocchi^{1,2}, W. Hortschitz⁴, S. Pile⁴, A. Vishina⁵, M. Hasan⁵, G. A. Marchant⁵, T. Colnaghi⁶, C. Winkler⁶, J. Winkler⁷, N. Dempsey⁸, T. Woodcock⁷, A. Marek⁶, H. C. Herper⁵, T. Schrefl⁴¹*Computational Science, Max Planck Institute for the Structure and Dynamics of Matter, Hamburg, Hamburg, Germany*, ²*Center for Free-Electron Laser Science, Hamburg, Germany*, ³*University of Southampton, Southampton, United Kingdom*, ⁴*University for Continuing Education Krems, Krems, Austria*, ⁵*Uppsala University, Uppsala, Sweden*, ⁶*Max Planck Compute and Data Facility, Garching, Germany*, ⁷*Leibniz IFW, Dresden, Germany*, ⁸*Institute Neel, Grenoble, France*[View Digest Text](#)**09:45 AM-10:00 AM****GH-05. Including sample shape in micromagnetics with periodic boundary conditions**F. L. Durhuus, A. R. Insinga, R. Bjørk*DTU Energy, Technical University of Denmark, Kongens Lyngby, Denmark*[View Digest Text](#)

10:00 AM-10:30 AM

Break

10:30 AM-10:45 AM**GH-06. Exploring the space of hard magnet materials with machine learning models**P. Palczynski, M. Werwinski*IFM, PAN, Poznan, Poland*[View Digest Text](#)

10:45 AM-11:00 AM

GH-07. Physical Magnetization Analysis of Silicon Steel Sheet under Biaxial Mechanical Stress

T. Matsuo¹, F. Martin², A. Belahcen²

¹Department of Electrical Engineering, Kyoto University, Kyoto, Japan, ²Department of Electrical Engineering and Automation, Aalto University, Aalto, Finland

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11:00 AM-11:30 AM

GH-08. Atomistic simulations of antiferromagnets and ultrafast switching of exchange bias

R. F. Evans

School of Physics, Engineering and Technology, University of York, York, United Kingdom

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11:30 AM-11:45 AM

GH-09. Ultrafast spin dynamics in 2D vdW magnets

M. Strungaru¹, R. F. Evans², R. W. Chantrell²

¹Computer science, University of Manchester, Manchester, United Kingdom, ²School of Physics, Engineering and Technology, University of York, York, United Kingdom

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SESSION GP: HARD MAGNETIC MATERIALS (POSTER SESSION)

Chair(s): C. de Julián Fernández, *Istituto dei Materiali per l'Elettronica ed il Magnetismo Consiglio Nazionale delle Ricerche, Parma, Italy*

Friday, April 17, 2026

09:00 AM-12:00 PM

Exchange Hall

GP-02. Revealing high coercivity in Nd-Fe-B with gradient rare earth-rich phase sizes

M. Zhu, D. Zhang, Q. Sun, Y. Fang, W. Li

State Key Laboratory of Rare Earth Permanent Magnetic Materials, Anhui, Anhui, China

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GP-03. Solubility of Zn in Rare Earth Free τ -MnAl Investigated with Diffusion Couples

J. Winkler^{1,2}, F. A. Urban^{1,2}, N. Kornelius^{1,2}, T. Woodcock¹

¹Institute for Metallic Materials, Leibniz Institute for Solid State and Materials Research (IFW) Dresden, Dresden, Germany, ²TU Dresden, Dresden, Germany

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GP-04. The Development of Carbon-based Magnets to Reduce Dependency on Rare Earth Metals

S. M. Alghamdi², J. McGowan¹, M. Ali¹, B. Hickey¹, O. Céspedes¹

¹University of Leeds, Leeds, United Kingdom, ²Taibah University, Yanbu Governorate, Saudi Arabia

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GP-05. Grain-Boundary Engineering and Magnetic Properties of Ga-Substituted $\text{Sm}_{1.7}(\text{Fe}_{1-x}\text{Ga}_x)_{10}\text{V}_2$ ThMn₁₂-Type Sintered Magnets

X. Zheng, P. Si, B. Zhang, Y. Song, J. Park

Nano Materials Research Division, Korea Institute of Materials Science, Changwon, Gyeongsangnam-do, Korea (the Republic of)

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GP-06. Exchange Spring behaviour in electrodeposited Co-rich CoPtP films on Cu(111)/Si substratesS. Seth^{1,2}, S. Roy^{1,2}¹Micropower Devices & Nanomagnetism group, Tyndall National Institute, Cork, Munster, Ireland, ²School of Physics, University College Cork, Cork, Munster, Ireland[View Digest Text](#)**GP-07. Combined Effect of Grain Size and Hematite Content on the Magnetic Properties of Sr_xBa_{1-x}Fe₁₂O₁₉ Ceramic Powders**I. Lorenzo¹, J. P. Andrés², D. Robles-Cuenca², N. Cotón¹, J. Ramírez-Castellanos³, R. Ranchal¹¹Física de Materiales, Universidad Complutense de Madrid, Madrid, Madrid, Spain, ²Universidad Castilla-La Mancha, Ciudad Real, Spain, ³Química Inorgánica, Universidad Complutense de Madrid, Madrid, Spain[View Digest Text](#)**GP-09. Improvement of the magnetic properties of recycled NdFeB sintered magnets through inline classification of fine powders**M. Schönfeldt^{1,2}, M. Hasan¹, M. Villacís^{1,2}, K. Opelt^{1,2}, O. Gutfleisch²¹Magnetic Materials, Fraunhofer Research Institution for Materials Recycling and Resource Strategies IWKS, Hanau, Germany, ²Department of Materials and Geosciences, Functional Materials, TU Darmstadt, Darmstadt, Germany[View Digest Text](#)**GP-10. A study on the Pr Diffusion Depth-Coercivity Correlation Using a Statistical Approach to Micromagnetic Simulation**G. Kim¹, S. Lee², S. Kim², T. Kim², K. Bae⁴, D. Kim⁴, J. Lee², K. Lee^{1,3}¹School of Materials Science and Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan, Korea (the Republic of), ²Department of Magnetic Materials, Korea Institute of Materials Science (KIMS), Changwon, Korea (the Republic of), ³Graduate School of Semiconductor Materials and Devices Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan, Korea (the Republic of), ⁴R&D Center, Star Group Ind. Co., Ltd., Daegu, Korea (the Republic of)[View Digest Text](#)**GP-11. Magnetic anisotropy and coercivity in hcp Co-Mo solid solution: A first-principles investigation**D. Sagar¹, S. Dhapola², J. Shield², A. Kashyap¹¹School of Physical Sciences, Indian Institute of Technology Mandi, Mandi, Himachal Pradesh, India, ²Department of Mechanical Engineering and Nebraska Center for Materials and Nanoscience, University of Nebraska, Lincoln, Nebraska, United States[View Digest Text](#)**GP-12. Perpendicular high coercivity of bct FeCo-Cr granular films**

T. Hasegawa, T. Satou, J. Liu

Akita University, Akita, Japan

[View Digest Text](#)**GP-13. Controlling the Magnetic Anisotropy of YFe₃ through Transition-Metal Doping**B. Lessmann Fertig^{1,2}, M. Hasan³, N. Kornelius^{1,2}, H. C. Herper³, T. Woodcock¹¹Institute of Metallic Materials, Leibniz Institute for Solid State and Materials Research (IFW) Dresden, Dresden, Saxony, Germany, ²Institute of Materials Science, Technical University Dresden, Dresden, Germany, ³Department of Physics and Astronomy, Uppsala University, Uppsala, Sweden[View Digest Text](#)**GP-14. Low-Pressure Hydrogen Decepritation for Recycling Magnets into Bonded Magnets**I. Nlebedim¹, H. Parmar¹, M. P. Paranthaman²¹Division of Critical Materials, Ames National Laboratory, Ames, Iowa, United States, ²Chemical Sciences Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States[View Digest Text](#)

GP-15. Magnetic properties and microstructure of melt spun SmFe_{12} ribbons with V substitution and B-doping

H. W. Chang, W. Lin, W. Wong, W. C. Chang

Department of Physics, National Chung Cheng University, Taichung, Taiwan[View Digest Text](#)**GP-16. Coercivity enhancement of NdFeB sintered magnets by grain boundary diffusion with $\text{R}_{35}\text{Pr}_{35}\text{Zn}_{15}\text{Al}_{15}$ (R= Dy and Tb) alloys**

W. Wong, H. W. Chang, W. C. Chang

Department of Physics, National Chung Cheng University, Taichung, Taiwan[View Digest Text](#)**SESSION GQ: HIGH-SPEED, INDUCTION, AND RELUCTANCE MACHINES (POSTER SESSION)**Co-Chair(s): S. Niu, *Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Kowloon, Hong Kong* and F. Zhao, *Harbin Institute of Technology (Shenzhen), Shenzhen, China*

Friday, April 17, 2026

09:00 AM-12:00 PM

Exchange Hall

GQ-01. Effect of Stator-Slot Winding Placement on AC Copper Loss in High-Speed Modular MotorsD. Ahn^{2,1}, S. Oh², J. Lee²¹*Hanyang University, Seoul, Korea (the Republic of)*, ²*Korea Automotive Technology Institute, Cheonan-si, Korea (the Republic of)*[View Digest Text](#)**GQ-03. Development of Polar Anisotropic Rare Earth Nd-Fe-B Bonded Magnets with Sinusoidal Magnetic Flux Distribution for High Speed Motor Application**C. Mishima¹, T. Yoshimatsu¹, E. Kikuchi¹, Y. Honkura¹, J. Asama²¹*Magnedesign, Aichi-ken, Mihama-cho, Japan*, ²*Shizuoka University, Hamamatsu, Japan*[View Digest Text](#)**GQ-04. Analytical Solution for AC Copper Loss in Hairpin Winding Machines Using Harmonic Modeling and a 1-D Computation Model**Y. Kim¹, D. Hoang¹, S. Eom¹, Y. Kim², K. Shin³, J. Choi¹¹*Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of)*, ²*Biosystems Machinery Engineering, Chungnam National University, Daejeon, Korea (the Republic of)*, ³*Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)*[View Digest Text](#)**GQ-05. Current-Balancing Control of Paralleled Inverters for a High-Speed Dynamometer Motor Drive**J. Lee¹, I. Cho², Y. Kim³, K. Lee¹, B. Jung⁴¹*Electric Drive Lab., KATECH, Cheonan-si, Chungcheongnam-do, Korea (the Republic of)*, ²*Seoho Drives, Anyang-si, Korea (the Republic of)*, ³*Electrical Engineering, University of Hoseo, Asan-si, Korea (the Republic of)*, ⁴*Electrical Engineering, University of Changwon, Changwon-si, Korea (the Republic of)*[View Digest Text](#)**GQ-06. Integrated Mechanical–Electromagnetic Design and Experimental Validation of a High-Speed Permanent Magnet Synchronous Motor Considering Sleeve Interference Fit and Harmonic Losses**S. Kim¹, K. Kwak¹, J. Jang¹, Y. Kim², K. Shin³, J. Choi¹¹*Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of)*, ²*Biosystems Machinery Engineering, Chungnam National University, Daejeon, Korea (the Republic of)*, ³*Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)*[View Digest Text](#)

GQ-07. A study on design technology for improving the high-speed driving stability of vehicle traction motors.

M. Park, S. Song, J. Lee, K. Lee

Korea Electronics Technology Institute, Bucheon, Korea (the Republic of)

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GQ-08. Optimal Design of a High-Efficiency Permanent Magnet Assisted Synchronous Reluctance Motor Considering Anti-Demagnetization Performance

X. Liu^{1,2,3}, W. Zhao^{1,2,3}, D. Lu⁴

¹College of Electrical and Information Engineering, Hunan University, Changsha, Hunan, China, ²Greater Bay Area Institute for Innovation, Hunan University, Guangzhou, China, ³State Key Laboratory of Offshore Wind Power Equipment and High-efficient Utilization Wind Energy, Hunan University, Changsha, China, ⁴NR Electric Co., Ltd, Nanjing, China

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GQ-09. 12/10 Switched Reluctance Motor Capable of Operating as Induction Motor

A. Kohara¹, N. Niguchi²

¹the Department of Electrical and Electronic Information Engineering, Toyohashi University of Technology, Toyohashi, Aichi, Japan, ²Osaka University, Suita, Osaka, Japan

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GQ-10. Two-Stage Optimization of an IE4-Class Induction Motor for Rated Efficiency Improvement

H. Ban¹, S. Kim¹, K. Yu¹, S. Kim¹, J. Park¹, S. Eom¹, Y. Kim², K. Shin³, J. Choi¹

¹Department of Electrical Engineering, Chungnam National University, Daejeon, Daejeon, Korea (the Republic of), ²Department of Biosystems Machinery Engineering, Chungnam National University, Daejeon, Korea (the Republic of), ³Department of Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)

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GQ-11. Inclusion of Finite Magnetic Properties in Electrical Machine Modeling Using Harmonic Analysis and Conformal Mapping

M. Ramos Friedmann, D. Ceylan, M. Merdzan, E. A. Lomonova

Electrical Engineering, Eindhoven University of Technology, Eindhoven, Netherlands

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GQ-12. Dynamic Modeling of Permanent Magnet Assisted Synchronous Reluctance Machines Using Data-Driven Surrogate Models

G. Behling da Silveira¹, I. P. Wiltuschnig¹, A. Tergolina Salton¹, A. Ferreira Flores Filho¹, D. Dorrell², P. Eckert¹

¹Federal University of Rio Grande do Sul, Porto Alegre, Rio Grande do Sul, Brazil, ²University of Turku, Turku, Finland

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GQ-13. FEM Analysis of an Internal Stator Tooth Coil for Broken Rotor Bar Detection

I. Bennis, A. Tounzi, J. Korecki, A. Benabou

Arts et Metiers Institute of Technology, Université de Lille, Villeneuve d'Ascq, France

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GQ-14. Design and Analysis of Single-phase Synchronous Reluctance Motor for Ceiling Fan Applications

P. A. D'sa^{2,1}, A. Kushwaha³, S. Dey¹, S. Sengupta¹, B. G. Fedrnandes¹

¹Electrical Engineering, Indian Institute of Technology, Bombay, Udipi, Karnataka, India, ²Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, Karnataka, India, ³Electrical, Electronics and Communication Engineering, Indian Institute of Technology Dharwad, Dharwad, Karnataka, India

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GQ-15. Design, Fabrication, and Experimental Verification of a Hybrid-Conductor Rotor for Super Premium Efficiency Induction Motors Using a Gravity Casting Process

K. Lee, J. Seo, S. Lee

Purpose Built Mobility Group, Korea Institute of Industrial Technology, Gwangju, Korea (the Republic of)

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GQ-16. Analytical Modeling of a Dual Three-Phase Squirrel-Cage Induction Motor with Harmonic Injection

B. Mustafa¹, A. Hemeida^{1,2}, F. Ahmed³, A. Belahcen¹

¹*Department of Electrical Engineering and Automation, Aalto University, ESPOO, Finland*, ²*Department of Electrical Engineering, Cairo University, Cairo, Egypt*, ³*Drives, Oy Danfoss Drives Ab, Helsinki, Helsinki, Finland*

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SESSION GR: DATA-DRIVEN AND FUNCTIONAL MAGNETISM: FROM QUANTUM MATERIALS TO ELECTROMAGNETIC SYSTEMS (POSTER SESSION)

Chair(s): A. Meo, *Department of Electrical and Information Engineering, Politecnico di Bari, Bari, Italy*

Friday, April 17, 2026

09:00 AM-12:00 PM

Exchange Hall

GR-01. Interplay of Ferromagnetism and Valley Physics in Stacking-Dependent Janus VSSe Bilayers

K. Dange¹, A. Shukla²

¹*Physics, Indian Institute of Technology Bombay, Mumbai, Maharashtra, India*, ²*Physics, Indian Institute of Technology Bombay, Mumbai, Maharashtra, India*

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GR-03. Machine learning accelerated High-Throughput study of Electronic and Magnetic properties of $M_4X_3T_x$ MXenes

S. Goel, S. Singh, A. Kashyap

IIT Mandi, Mandi, Himachal Pradesh, India

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GR-04. Trained by magnetic data only, artificial neural network predicts mechanical and structural properties of WC-Co hardmetals

H. Brueckl¹, L. Breth¹, J. Fischbacher¹, T. Schrefl¹, S. Kuehrer², J. Pachthofer², M. Schwarz², T. Weirather², C. Czettel²

¹*Dept. for Integrated Sensor Systems, University for Continuing Education Krems, Wiener Neustadt, Lower Austria, Austria*, ²*R&D Cutting Tools, Ceratizit Austria GmbH, Reutte, Austria*

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GR-06. Hysteresis Loop Measurement Method for Setting Demagnetization Current Parameters of MSR Based on Pulse Response

Z. Kan¹, J. Sun^{1,2}, J. Ma²

¹*Beihang University, Beijing, China*, ²*Hangzhou Institute of National Extremely-weak Magnetic Field Infrastructure, Hangzhou, China*

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GR-07. Improvements in CEM's Primary Magnetics Laboratory

S. Moltó, Y. A. Sanmamed, J. Díaz de Aguilar

Electricity and Energy, Centro Español de Metrología, Tres Cantos, Madrid, Spain

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GR-08. Impact of Electrostatic Forces in High-Gradient Magnetic Chromatography

N. Carlstedt, P. Andrei

Florida State University, Tallahassee, Florida, United States

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GR-09. An Intelligent Inversion Method to Identify Railway Ballast Gradation Parameters Using Electromagnetic Wave ReflectionH. Hu^{1,2}, Z. Yang¹, G. Cao^{1,2}¹Guangdong Key Laboratory of Electromagnetic Control and Intelligent Robots, Shenzhen University, Shenzhen, China, ²National Key Laboratory of Green and Long-Life Road Engineering in Extreme Environment (Shenzhen), Shenzhen University, Shenzhen, China[View Digest Text](#)**GR-10. Dynamic-to-Static Wireless Charging for Railway Internet of Things**S. Niu¹, W. Liu¹, C. Liu¹, C. Li², K. Chau¹¹Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Kowloon, Hong Kong, ²Department of Design and Architecture, Technological and Higher Education Institute of Hong Kong, Hong Kong, Hong Kong[View Digest Text](#)**GR-12. Exploring the potential of machine-learning guided screening in magnetic high-throughput studies**M. Hasan¹, S. Pile², T. Schrefl², H. C. Herper¹¹Physics and Astronomy, Uppsala University, Uppsala, Sweden, ²University for Continuing Education Krems, Wiener Neustadt, Austria[View Digest Text](#)**SESSION GS: ADVANCES IN MAGNETIC SENSING (POSTER SESSION)**

Chair(s): D. Leitao, Eindhoven University of Technology, Eindhoven, Netherlands

Friday, April 17, 2026

09:00 AM-12:00 PM

Exchange Hall

GS-01. From magnetic incremental permeability to magnetic rotational permeability in non-destructive testing and evaluationY. Tene Deffo^{2,3}, T. Uchimoto², B. Ducharne^{1,2}¹Institut National des Sciences Appliquées de Lyon, Villeurbanne, France, ²Tohoku University, Sendai, Miyagi, Japan, ³University of Buea, Buea, Cameroon[View Digest Text](#)**GS-02. Focused electron beam induced deposition and characterization of 3D racetrack memory systems**T. Almeida¹, K. Edgar¹, S. Okasha¹, A. Silinga¹, A. Kovács², R. E. Dunin-Borkowski², S. McVitie¹¹School of Physics and Astronomy, University of Glasgow, Glasgow, United Kingdom, ²Ernst Ruska-Centre, Forschungszentrum Jülich, Jülich, Germany[View Digest Text](#)**GS-04. Harmonic Analysis of Magnetic Measurement Signals for Case Depth Evaluation**W. Cheng^{1,2}, B. Ducharne^{3,4}, Y. Kamiyama¹¹Japan Power Engineering and Inspection Corporation, Yokohama, Japan, ²Tohoku University, Sendai, Japan, ³ELYTMAX IRL3757, CNRS, Univ. Lyon, INSA Lyon, Centrale Lyon, Université Claude Bernard Lyon 1, Tohoku University, Sendai, Japan, ⁴Univ Lyon, INSA-Lyon, Lyon, France[View Digest Text](#)**GS-05. Combinatorial Optimization of Magnetic Films Toward Rare-Earth Free and Rare-Earth Lean Applications**

S. Fields, C. White, K. Nipling, O. M. van 't Erve, S. P. Bennett

U.S. Naval Research Laboratory, Washington, District of Columbia, United States

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GS-06. Polarised Neutron Reflectivity for Structural and Magnetic Depth Profiling of Magnetic Thin Films with the POLREF Reflectometer

C. Kinane, A. Caruana, S. Langridge

ISIS, Reflectivity, Rutherford Appleton Lab, Abingdon, Oxfordshire, United Kingdom

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GS-07. Recent Developments on the Beamline for Advanced Dichroism Experiments (BLADE)

K. Dhaliwal, P. Bencok, R. Fan, P. Steadman

Diamond Light Source Ltd, Didcot, Oxfordshire, United Kingdom

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GS-08. Combination of Magnetic Force Microscopy in a Variable Magnetic Field with Micro Raman Spectroscopy

A. Belyaev, A. Yagovkin, M. Temiriazeva, A. Temiriazev, J. L. Rangel

Horiba France SAS, Lille, France

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GS-09. Reference Magnetization Measurements for Metrological Characterization of Magnetic Nanoparticles

S. Arsalani, U. Steinhoff, F. Wiekhorst

Physikalisch-Technische Bundesanstalt, Berlin, Germany

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GS-10. Topological transitions and protection in Fe₃GeTe₂ van der Waals ferromagnetic thin flake

S. Chowdhury

Deutsches Elektronen-Synchrotron (DESY), Hamburg, Germany

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GS-11. Towards Topography-Robust High Sensitivity Quantitative Magnetic Force Microscopy in Vacuum

C. Habenschaden, S. Sievers, H. W. Schumacher

Physikalisch-Technische Bundesanstalt, Braunschweig, Germany

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GS-12. Quantitative laser-free Magnetic Force Microscopy using a vortex calibration sample

L. Breth¹, S. Nandan², E. Fantner², H. Brueckl¹

¹Department for Integrated Sensor Systems, University for Continuing Education Krems, Wr. Neustadt, Austria, ²c-sense Nanotechnology GmbH, Wr. Neustadt, Austria

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GS-13. Developing a new instrument for coherent soft x-ray imaging of magnetic materials at Diamond Light Source

D. M. Burn, L. Turnbull, A. Walters

Physics, Diamond Light Source, Harwell, Oxfordshire, United Kingdom

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GS-15. Methods for Improving the Quality of MFM Images

A. Temiriazev, M. Temiriazeva

Horiba France SAS, Lille, France

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GS-16. Detecting Chemical Order on the Local Scale in Ferromagnetic, L1₀ Compounds using EBSD Band Profiles

T. Woodcock, A. Payattuvalappil

IFW Dresden, Dresden, Germany

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SESSION GT: MAGNETOELECTRIC MATERIALS AND PHENOMENA (POSTER SESSION)Chair(s): H. Kuwahara, *Sophia University, Tokyo, Japan*

Friday, April 17, 2026

09:00 AM-12:00 PM

Exchange Hall

GT-01. Magnetic Properties Quantification of Nanocomposite YIG with High Concentrations of Zn DopingR. Mohammed¹, Y. Shepelytskyi^{1,2}, H. Chumak³, M. Popov³, V. Batarчук^{1,2}, A. Reznik¹, M. S. Albert^{1,2}¹Lakehead University, Thunder Bay, Ontario, Canada, ²Thunder Bay Regional Health Research Institute, Thunder Bay, Ontario, Canada, ³Taras Shevchenko National University of Kyiv, Kyiv, Ukraine[View Digest Text](#)**GT-02. Experimental and DFT Investigation of Ni-doped LaCoO₃ Nanoparticles: Structure, Morphology, magnetic, and Electronic Properties**S. Khairredine*Physics, Mohammed V University, Rabat, Morocco*[View Digest Text](#)**GT-05. Flexible Magnetoelectric Laminates for Sensing and Cellular Magnetoelectric Stimulation**H. Chiriac, A. Railean, C. Hlenschi, S. Corodeanu, A. Minuti, G. Ababei, M. Tibu, N. Lupu*National Institute of Research and Development for Technical Physics, Iasi, Romania*[View Digest Text](#)**GT-06. Magneto-ionic tuning of ferrimagnetic Tb₃₅Co₆₅ through deuterium loading with in-situ polarized neutron reflectometry**R. G. Hunt¹, G. K. Pálsson¹, M. P. Grassi¹, V. Kabanova^{1,2}, A. Vorobiev^{1,2}, G. Andersson¹¹Material Physics, Uppsala University, Uppsala, Sweden, ²Institut Laue-Langevin, Grenoble, France[View Digest Text](#)**GT-08. Crystal and Magnetic Structures of Tetragonal Spinel Fe_{2.99}V_{3.01}O₈ Studied by Neutron and X-ray Diffraction**M. Liao¹, C. Lu², Y. Lin², C. Wang³, W. Liu⁴, C. Huang⁵, Y. Lee², C. Yang¹¹Department of Physics, National Central University, Taiwan, Zhongli, Taoyuan, Taiwan, ²Department of Physics, Chung Yuan Christian University, Chung-Li, Taoyuan, Taiwan, ³Neutron Group, National Synchrotron Radiation Research Center, Hsinchu, Taiwan, Taiwan, ⁴Department of Chemical Engineering, Chung Yuan Christian University, Chung-Li, Taoyuan, Taiwan, ⁵Department of Physics, National Cheng Kung University, Tainan, Taiwan[View Digest Text](#)**GT-09. AlN and FeGaB Thin Film-based Magnetoelectric Resonators with Different Magnetic Sensitivity units**M. Du¹, Y. Wang^{1,2,3}, J. Li¹, X. Xu¹, T. Wu^{1,2,3}¹ShanghaiTech university, Shanghai, Shanghai, China, ²Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, Shanghai, China, ³University of Chinese Academy of Sciences, Beijing, China[View Digest Text](#)**GT-11. Cryogenic magnetization dynamics in tensile-strained YIG thin film with tunable magnetic anisotropy**D. Kim*NISE, Max Planck Institute for Microstructure Physics, Halle (Saale), Germany*[View Digest Text](#)**WOMEN IN MAGNETISM WORKSHOP**

Friday, April 17, 2026

12:15 PM-01:15 PM

Exchange 9

MAGNETIC IMMUNITY IN MRAM: FROM PERCEIVED RISK TO PRACTICAL SOLUTIONSChair(s): Jean-Pierre Nozières, *CNRS* and Daniel Worledge, *IBM*

Friday, April 17, 2026

01:30 PM-04:30 PM

Exchange 6&7

01:30 PM-02:00 PM**MRAM Magnetic Allergies**[Ben Schmidt](#), *NxP***02:00 PM-02:30 PM****Standby Magnetic Immunity: Evaluation and Mitigation Strategies**[Abhishek Talapatra](#), *Global Foundries***02:30 PM-03:00 PM****Enhanced Magnetic Immunity in STT-MRAM via Wafer-Level Magnetic Shielding**[Jaehoon Kim](#), *Samsung***03:00 PM-03:30 PM****MRAM Magnetic Immunity Under Control**[Siamak Salimy](#), *Hprobe***03:30 PM-04:00 PM****Inoculating Innovation: How Standards Resolve the MRAM Magnetic Immunity Challenge**[Dan Gopman](#), *NIST***04:00 PM-04:30 PM****Current-Induced Switching of All-Antiferromagnetic Tunnel Junctions**[Pedram Khalili](#), *Northwestern University***SESSION HA: MAGNETIZATION DYNAMICS FROM SPIN-PHONON COUPLING TO ULTRAFAST**Chair(s): M. Strungaru, *Computer Science, University of Manchester, Manchester, United Kingdom*

Friday, April 17, 2026

02:00 PM-05:30 PM

Exchange Auditorium

02:00 PM-02:30 PM**HA-01. Hybrid magnon-phonon platforms for GHz information processing**[A. Hamadeh](#)*Centre de Nanosciences et de Nanotechnologies (C2N), Université Paris-Saclay, CNRS, Palaiseau, 91120, France*[View Digest Text](#)**02:30 PM-02:45 PM****HA-02. Nonlinear magnon excitations by magnetoelastic coupling in a surface acoustic wave resonator**[Y. Hwang](#)¹, [L. Liao](#)², [J. Puebla](#)^{1,3}, [M. Brühlmann](#)⁴, [C. Gonzalez](#)⁴, [K. Kondou](#)¹, [N. Ogawa](#)^{1,5}, [S. Maekawa](#)^{1,6}, [Y. Otani](#)^{2,1}¹*CEMS, RIKEN, Wako, Saitama, Japan*, ²*ISSP, The University of Tokyo, Kashiwa, Japan*, ³*Department of Electronic Science and Engineering, Kyoto University, Kyoto, Japan*, ⁴*Institute of Theoretical Physics and Vienna Center for Quantum Science and Technology, TU Vienna, Vienna, New South Wales, Australia*, ⁵*Tokyo College, The University of Tokyo, Tokyo, Japan*, ⁶*Advanced Science Research Center, Japan Atomic Energy Agency, Tokai, Japan*[View Digest Text](#)

02:45 PM-03:00 PM

HA-03. Role of Geometric Confinement in Stress-Mediated Spin Wave Dynamics of Magnetoelectric Heterostructures

[A. Pandey](#)^{1,2}, [S. Roy](#)^{1,2}

¹Micropower Devices/Systems and Nanomagnetism Group, Tyndall National Institute, Cork, Ireland, ²School of Physics, University College Cork, Cork, Ireland

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03:00 PM-03:30 PM

HA-04. Exciting magnetization dynamics with surface acoustic waves: from spin-wave modes in synthetic antiferromagnets to vortex gyration

[R. Lopes Seeger](#)¹, [F. Millo](#)¹, [G. Soares](#)², [L. Thevenard](#)³, [C. Gourdon](#)³, [J. Kim](#)¹, [C. Chappert](#)¹, [A. Solignac](#)², [G. de Loubens](#)², [T. Devolder](#)¹

¹Centre de Nanosciences et de Nanotechnologies (C2N), Palaiseau, France, ²CEA-SPEC, Gif-sur-Yvette, France, ³INSP, Paris, France

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03:30 PM-04:00 PM

Break

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HA-05. Photon-helicity-induced torques in metallic ferromagnets

[S. Iihama](#)

Department of Materials Physics, Nagoya University, Nagoya, Japan

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04:30 PM-04:45 PM

HA-06. Optically stimulated spin dynamics in a multi-domain CoO/Pt bilayer

[C. R. Sait](#)¹, [M. Dabrowski](#)¹, [T. Wu](#)², [J. Xu](#)², [P. S. Keatley](#)¹, [O. Gomonay](#)³, [Y. Wu](#)², [R. Hicken](#)¹

¹Physics and Astronomy, University of Exeter, Exeter, United Kingdom, ²Department of Physics and State Key Laboratory of Surface Physics, Fudan University, Shanghai, China, ³Institute of Physics, Johannes Gutenberg-University Mainz, Mainz, Germany

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04:45 PM-05:00 PM

HA-07. Intrinsic non-Markovianity in magnetization dynamics - Quantification via entropy production

[F. Hartmann](#)¹, [V. Unikandanunni](#)², [F. Tietjen](#)³, [R. Geilhufe](#)³, [M. Bargheer](#)¹, [E. Fullerton](#)⁴, [S. Bonetti](#)⁵, [J. Anders](#)¹

¹University of Potsdam, Potsdam, Germany, ²Institute of Applied Physics, University of Bern, Bern, Switzerland, ³Department of Physics, Chalmers University of Technology, Göteborg, Sweden, ⁴Center for Memory and Recording Research, University of California, San Diego, San Diego, California, United States, ⁵Department of Molecular Sciences and Nanosystems, Ca' Foscari University of Venice, Venice, Italy

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05:00 PM-05:15 PM

HA-08. Ultrafast Laser Driven Ground State in Artificial Spin Ices

[S. Sahoo](#)^{1,2}, [D. Pecchio](#)^{1,2}, [V. Scagnoli](#)^{1,2}, [L. Heyderman](#)^{1,2}

¹PSI Center for Neutron and Muon Sciences, Paul Scherrer Institut, Villigen PSI, Switzerland, ²Department of Materials, ETH Zurich, Zurich, Switzerland

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05:15 PM-05:30 PM

HA-09. Light-driven modulation of proximity-enhanced spin precession frequency in the Co/C₆₀ interface

M. Benini¹, U. Parlak², J. Strohsack⁵, S. Bork¹, R. Leven¹, F. Mertens¹, E. Zhukov¹, R. K. Rakshit³, I. Bergenti³, A. Droghetti⁴, A. Shumilin⁶, T. Mertelj⁵, V. A. Dediu³, M. Cinchetti¹

¹Physics, TU Dortmund, Dortmund, NRW, Germany, ²Physics, University of Konstanz, Konstanz, Germany, ³ISMN-CNR, Bologna, Italy, ⁴Department of Molecular Sciences and Nanosystems, Ca' Foscari University, Venezia Mestre, Italy, ⁵Jozef Stefan Institute, Ljubljana, Slovenia, ⁶Instituto de Ciencia Molecular, Universitat de Valencia, Valencia, Spain

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SESSION HB: MAGNETISM FOR BIOMEDICAL APPLICATIONS

Co-Chair(s): R. L. Hadimani, *Mechanical and Nuclear Engineering, Virginia Commonwealth University, Richmond, Virginia, United States* and K. Wu, *Texas Tech University, Lubbock, Texas, United States*

Friday, April 17, 2026

02:00 PM-05:30 PM

Charter 1

02:00 PM-02:30 PM

HB-01. Microstructured Magnetoelastic Membrane used as Magnetic Bioactuators to trigger insuline release from pancreatic cells

H. Joisten^{1,2}, S. Ponomareva¹, Y. Hou³, M. Carrière³, B. Dieny¹

¹Univ. Grenoble Alpes, CEA, CNRS, SPINTEC, Grenoble, France, ²Univ. Grenoble Alpes, CEA, LETI, Grenoble, France, ³Univ. Grenoble Alpes, CEA, CNRS, IRIG-SyMMES, Grenoble, France

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02:30 PM-02:45 PM

HB-03. Giant Magnetoresistive Sensing Platform for Type-1 Diabetes Antibody Screening

F. Franceschini^{1,2}, C. Choi², I. Taurino^{1,3}, S. X. Wang^{2,4}

¹Physics and Astronomy, KU Leuven, Leuven, Belgium, ²Department of Materials Science and Engineering, Stanford University, Stanford, California, United States, ³Department of Electrical Engineering, KU Leuven, Leuven, Belgium, ⁴Department of Electrical Engineering, Stanford University, Stanford, California, United States

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02:45 PM-03:00 PM

HB-04. Simple and Highly Sensitive Detection of GDF15 in Human Urine Using Magnetic Nanoparticle Aggregation

S. Yabukami, T. Murayama, L. Tonthat, T. Sato, T. Abe

Tohoku University, Sendai, Miyagi, Japan

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03:00 PM-03:15 PM

HB-05. Area-Efficient Vertical Flux Concentrators for Perpendicular MTJs

Z. Ali¹, H. Naganuma^{2,3}, P. Wallace⁴, S. X. Wang¹, A. Poon¹

¹Electrical Engineering, Stanford University, Campbell, California, United States, ²Nagoya University, Furo-cho, Japan, ³Tohoku University, Sendai, Japan, ⁴nano@stanford, Stanford University, Stanford, California, United States

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HB-06. Magneto-Optical Multifunctional Microscopy for Biomedical Applications

X. Wang, T. Nahar, P. Manganas, X. Feng, J. Everett, M. Gates, N. Telling

Keele University, Stoke-on-Trent, United Kingdom

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03:30 PM-04:00 PM

Break

04:00 PM-04:15 PM**HB-07. Development of Trans-spinal Magnetic Stimulator Coil Using Inverse Problem Approach for Effective Stimulation**S. Honda¹, A. Iino², J. Tabata³, H. M. Kim², M. Sekino²¹Electrical and Electronic Engineering, The University of Tokyo, Tokyo, Japan, ²Bioengineering, The University of Tokyo, Tokyo, Japan, ³Electrical Engineering and Information Systems, The University of Tokyo, Tokyo, Japan[View Digest Text](#)**04:15 PM-04:30 PM****HB-08. Orientation-Dependent Effects of Weak Static Magnetic Fields on Proliferation of HT22 cells**M. Pirbhai¹, A. Estevez²¹Physics, St. Lawrence University, Canton, New York, United States, ²Biology, St. Lawrence University, Canton, New York, United States[View Digest Text](#)**04:30 PM-04:45 PM****HB-09. Liquid Magnets in Aqueous and Low-polar Media**J. Tručl^{1,2}, P. Hribar Boštjančič³, Z. Gregorin³, P. Medle Rupnik^{3,4}, A. Mertelj³, D. Lisjak¹¹Department for Materials Synthesis, Jozef Stefan Institute, Ljubljana, Slovenia, ²Jozef Stefan International Postgraduate School, Ljubljana, Slovenia, ³Department of Complex Matter, Jozef Stefan Institute, Ljubljana, Slovenia, ⁴Faculty of Mathematics and Physics, University of Ljubljana, Ljubljana, Slovenia[View Digest Text](#)**04:45 PM-05:00 PM****HB-10. High-throughput isolation of rare cells in liquid biopsies using immunomagnetic sorting**E. Dupont^{1,2}, E. Laffont^{1,2}, L. Artinyan^{1,2}, E. Laurenceau¹, C. Brunin³, M. Piecyk³, L. Payen³, A. Deman¹, D. Le Roy²¹Institut des Nanotechnologies de Lyon, Villeurbanne, France, Lyon, France, ²Institut Lumière Matière, Villeurbanne, France, Lyon, France, ³Laboratoire de Biochimie et Biologie Moléculaire, CICLY UR3738, Groupe Hospitalier Sud, HCL, Pierre Bénite, France, Lyon, France[View Digest Text](#)**05:00 PM-05:15 PM****HB-11. Ferrimagnetic Tb/Co Based Substrates for Magnetophoresis**M. Urbaniak, D. Kiphart, M. Matczak, G. Chaves O'Flynn, F. Stobiecki, P. Kuswik*Thin film and nanostructures, Institute of Molecular Physics of the Polish Academy of Sciences, Poznan, Poland*[View Digest Text](#)**SESSION HC: FIELD-FREE MAGNETIZATION SWITCHING**Co-Chair(s): Y. Zhou, *School of Physics, Huazhong University of Science and Technology, Wuhan, China* and V. Nguyen, *Interuniversitair Micro-Elektronica Centrum, Leuven, Belgium*

Friday, April 17, 2026

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Charter 2

02:00 PM-02:30 PM**HC-01. Recent progress in spin-orbit torque magnetic random-access memory on 300 mm wafer integration platform**V. Nguyen, V. Kateel, M. Gama Monteiro, G. Talmelli, B. Coester, J. Chatterjee, A. Palomino Lopez, J. Larranaga, S. Van Beek, R. Carpenter, S. Rao, G. Kar*Interuniversitair Micro-Elektronica Centrum, Leuven, Belgium*[View Digest Text](#)

02:30 PM-02:45 PM

HC-02. Large spin-orbit torque in ferromagnetic films with broken symmetry

S. Wang, S. Jiang

School of Microelectronics, South China University of Technology, Guangzhou, Guangdong Province, China

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HC-03. Synergetic orbital and self-torque induced field-free switching of van der Waals magnet

H. Bangar, R. Ngaloy, L. Pandey, K. Ali, B. Zhao, S. P. Dash

Department of Microelectronic and Nanotechnology, Chalmers University of Technology, Göteborg, Sweden

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HC-04. Energy-efficient Field-free Switching by Orbital Torque and Spin-Reorientation

B. Jamshed², S. Das², M. Kläui¹, S. Piramanayagam²

¹Institute of Physics, Johannes Gutenberg University Mainz, Mainz, Germany, ²School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore, Singapore

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HC-05. The interfacial effect on spin-orbital torque in CoPt single layers

J. Li², H. Bai², T. Zhu¹

¹Institute of Physics, Chinese Academy of Sciences, Beijing, None Selected, China, ²Institute of High Energy Physics, Beijing, China

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Break

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HC-06. Current-Driven Switching in FeMn/CoFeB Perpendicular Systems

R. J. Salinas, C. Lai

Materials Science and Engineering, National Tsing Hua University, Hsinchu, East District, Taiwan

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HC-07. Uniaxial Magnetic Anisotropy and Type-X/Y Spin-Orbit Torque Switching in Obliquely Deposited (Ta,W)/CoFeB/Pt Trilayers

A. Khan, M. Meinert

Department of Electrical Engineering and Information Technology, Institute for Microwave Technology and Photonics, Darmstadt, Hessen, Germany

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HC-08. Dimensionality Enhanced Out-of-Plane Spin Currents in NbIrTe₄ for Efficient Field-Free Switching of Perpendicular Magnetization

W. Yang, X. Wang, J. Liu

Beihang University, Beijing, China

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HC-11. Modulation of Dzyaloshinskii-Moriya interaction by Cu interlayerG. Orero^{1,2,3}, F. van Riel⁴, S. Velez^{1,2,3}¹Universidad Autónoma de Madrid, Madrid, Comunidad de Madrid, Spain, ²Física de la Materia Condensada, Universidad Autónoma de Madrid, Madrid, Madrid, Spain, ³Condensed Matter Physics Center (IFIMAC), Madrid, Madrid, Spain, ⁴Applied Physics, Eindhoven University of Technology, Eindhoven, Netherlands[View Digest Text](#)**SESSION HD: ISING, PROBABILISTIC, AND UNCONVENTIONAL COMPUTING**Chair(s): V. H. González, *Applied Mathematics and Theoretical Physics, University of Cambridge, Cambridge, United Kingdom*

Friday, April 17, 2026

02:00 PM-05:30 PM

Charter 3

02:00 PM-02:30 PM

HD-02. True random bitstream generation and Ising machines based on phase-locked spin-torque nano-oscillatorsA. Hakam¹, C. Chopin¹, L. Martins¹, E. Aubouin^{1,3}, S. de Wergifosse², C. De Barbarin¹, N. Mollard¹, E. Yildiz¹, L. Hutin³, F. Badets³, L. C. Benetti⁴, A. Jenkins⁴, R. Ferreira⁴, L. D. Buda-Prejbeanu¹, F. Abreu Araujo², P. Talatchian¹, J. Ebel¹¹Univ. Grenoble Alpes, CEA, CNRS, SPINTEC, Grenoble, France, ²Université Catholique de Louvain, Institute of Condensed Matter and Nanosciences, Louvain-la-Neuve, Belgium, ³Univ. Grenoble Alpes, CEA, LETI, Grenoble, France, ⁴International Iberian Nanotechnology Laboratory, Braga, Portugal[View Digest Text](#)

02:30 PM-03:00 PM

HD-03. Spintronic devices for AI HardwareJ. Atulasimha*Virginia Commonwealth University, Richmond, Virginia, United States*[View Digest Text](#)

03:00 PM-03:15 PM

HD-04. Adaptive Ising Machine Based on Bi-Harmonic Driven OscillatorsR. Tomasello¹, E. Raimondo², A. Grimaldi¹, V. Tyberkevych³, A. Giordano⁴, M. Carpentieri¹, A. N. Slavin³, M. Chiappini², G. Finocchio⁴¹Politecnico di Bari, Bari, Italy, ²Istituto Nazionale di Geofisica e Vulcanologia, Rome, Rome, Italy, ³Oakland University, Rochester, Michigan, United States, ⁴University of Messina, Messina, Italy[View Digest Text](#)

03:15 PM-03:30 PM

HD-05. Skyrmionic Abacus for Neuromorphic Edge ComputationsW. Griggs, R. Chen, C. Li, Y. Li, D. Burrow, O. J. Barker, S. Furber, V. Pavlidis, C. Moutafis*University of Manchester, Manchester, United Kingdom*[View Digest Text](#)

03:30 PM-04:00 PM

Break

04:00 PM-04:15 PM

HD-06. Reconfigurable Spintronic Diodes for Neuromorphic ComputingA. Begué¹, H. Singh^{1,2}, Y. Wei¹, L. Herrera Diez³, A. Durnez³, B. Dlubak¹, J. Grollier¹, D. Sanz Hernandez¹¹Laboratoire Albert Fert, CNRS-Thales, Palaiseau, France, ²VTT Technical Research Center of Finland, Helsinki, Finland, ³Centre de Nanosciences et de Nanotechnologies, Palaiseau, France[View Digest Text](#)

04:15 PM-04:30 PM**HD-07. Trainable structural plasticity with radio-frequency spintronic neural networks**T. Rageau, J. Grollier, D. Sanz Hernandez, F. Mizrahi*Laboratoire Albert Fert, Palaiseau, France*[View Digest Text](#)**04:30 PM-04:45 PM****HD-08. Magnetic Tunnel Junctions for Reservoir Computing Applications**A. Grimaldi¹, D. Rodrigues¹, A. Meo¹, F. Garescì², G. Finocchio³¹*Department of Electrical and Information Engineering, Politecnico di Bari, Bari, BA, Italy,* ²*Department of Engineering, University of Messina, Messina, ME, Italy,* ³*Department of Mathematical and Computer Sciences, Physical Sciences and Earth Sciences, University of Messina, Messina, ME, Italy*[View Digest Text](#)**04:45 PM-05:00 PM****HD-09. Physical Implementation of Spintronic Neural Networks utilising Superparamagnetic Tunnel Junctions**J. Peters, P. Talatchian*SPINTEC, Grenoble, Isère, France*[View Digest Text](#)**SESSION HE: MANIPULATION OF MAGNETOTRANSPORT IN HYBRID STRUCTURES**Chair(s): M. Haidar, *Physics, American University of Beirut, Beirut, Lebanon*

Friday, April 17, 2026

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02:00 PM-02:30 PM**HE-01. Geometric Effects on Strain-Mediated Magnetoelectric Coupling in Scaled Devices**E. Meng, E. Van Meirvenne, F. Luciano, X. Wu, F. Ciubotaru, C. Adelmann*Computing and Memory Devices, Imec, Heverlee, Belgium*[View Digest Text](#)**02:30 PM-02:45 PM****HE-02. Thickness-Dependent Oscillation of High-Order Anisotropic Magnetoresistance in Epitaxial Fe(001) Films**H. Chen¹, Y. Chen^{2,3}, Z. Yuan³, Y. Wu¹¹*Physics Department, Fudan University, Shanghai, China,* ²*The Center for Advanced Quantum Studies and School of Physics and Astronomy, Beijing Normal University, Beijing, China,* ³*Interdisciplinary Center for Theoretical Physics and Information Science, Fudan University, Shanghai, China*[View Digest Text](#)**02:45 PM-03:00 PM****HE-03. Towards Switchable Magnetic Tunnel Junction based on Polyoxometalates Monolayer**E. Aoustin¹, J. Lion¹, F. Godel¹, S. Colin¹, E. Carré¹, A. Vecchiola¹, A. Hammani², F. Volatron², A. Proust², M. Martin¹, F. Petroff¹, P. Seneor¹, R. Mattana¹¹*Laboratoire Albert Fert, Palaiseau, France,* ²*IPCM, Sorbonne Universités, Paris, France*[View Digest Text](#)

03:00 PM-03:15 PM

HE-04. Magnetic Proximity Effect and Giant Odd-Parity Magnetoresistance in an α -Sn/(In,Fe)Sb HeterostructureL. Anh^{1,2}, S. Fukuoka¹, T. Hotta¹, M. Ishida¹, T. Chiba^{3,4}, Y. Kota⁵, M. Tanaka^{1,2}¹Department of Electrical Engineering and Information Systems, The University of Tokyo, Tokyo, Japan, ²Center for Spintronics Research Network, The University of Tokyo, Tokyo, Japan, ³Department of Information Science and Technology, Yamagata University, Yamagata, Japan, ⁴Department of Applied Physics, Tohoku University, Sendai, Miyagi, Japan, ⁵National Institute of Technology, Fukushima College, Fukushima, Japan[View Digest Text](#)

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HE-05. Voltage Effect of CoFeB/MgO/CoFeB Tunnel Junction Using a Decelerated Scanning Electron BeamH. Koizumi^{1,2,3}, K. B. Fathoni², Y. Yamamoto⁴, Z. Wen², H. Sukegawa², S. Mitani², A. Hirohata^{4,5}¹CSIS, Tohoku University, Sendai, Miyagi, Japan, ²CMSM, National Institute for Materials Science (NIMS), Tsukuba, Ibaraki, Japan, ³Department of Applied Physics, University of Tsukuba, Tsukuba, Ibaraki, Japan, ⁴EP Business Unit, JEOL Ltd., Akishama, Tokyo, Japan, ⁵Chemical Physics of Solids, Max-Planck-Institute, Dresden, Germany[View Digest Text](#)

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HE-06. Tunnel-Magnetoresistance Sensors Using Amorphous Co-Zr-Ta with High Annealing ToleranceT. Nagareda¹, M. Oogane^{1,2}, T. Nakano^{1,3}¹Applied Physics, Tohoku University, Sendai, Miyagi, Japan, ²Applied Physics, CSIS, Tohoku Univ, Sendai, Miyagi, Japan, ³Applied Physics, Tohoku Univ Green X-Tech, Sendai, Miyagi, Japan[View Digest Text](#)

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HE-07. Magnetic-Proximity-Modulated Spin-Charge Conversion in Ferromagnetic Metal Fe / Topological Dirac Semimetal α -Sn HeterostructuresM. Ishida¹, S. Fukuoka¹, T. Chiba^{2,6}, Y. Kota³, L. Anh^{1,4}, M. Tanaka^{1,4,5}¹Department of Electrical Engineering and Information Systems, The University of Tokyo, Tokyo, Japan, ²Department of Information Science and Technology, Yamagata University, Yamagata, Japan, ³National Institute of Technology, Fukushima College, Fukushima, Japan, ⁴Center for Spintronics Research Network (CSRN), The University of Tokyo, Tokyo, Japan, ⁵Institute for Nano Quantum Information Electronics (NanoQuine), Tokyo, Japan, ⁶Department of Applied Physics, Tohoku University, Miyagi, Japan[View Digest Text](#)

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HE-08. Spin-Pumping-Induced Spin Accumulation in Microfabricated Pt/CoFe/n-GaAs HeterostructureV. K. Kushwaha¹, M. Ogawa³, T. Uemura³, T. Seki^{1,2}¹Institute for Materials Research, Tohoku University, Sendai, Miyagi, Japan, ²Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Miyagi, Japan, ³Graduate School of Information Science and Technology, Hokkaido University, Sapporo, Hokkaido, Japan[View Digest Text](#)

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HE-09. Bias-Induced Electrical Spin Injection and Detection in a Modulation-Doped AlGaAs/GaAs Two-Dimensional Electron GasM. Ogawa, M. Yamanouchi, T. Uemura

Grad. School of Information Science and Technology, Hokkaido University, Sapporo, Hokkaido, Japan

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HE-10. Negative orbital-to-charge current conversion by the inverse Rashba-Edelstein effect in the ferroelectric topological crystalline insulator SnTeM. Gamino¹, E. Souza², J. L. Costa², F. Bohn¹, M. A. Correa¹, S. M. Rezende²¹Department of Physics, Federal University of Rio Grande do Norte, Natal, RN, Brazil, ²Department of Physics, Federal University of Pernambuco, Recife, PE, Brazil[View Digest Text](#)

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HE-11. Spin-charge conversion in large-area monolayer TMD/NiFe heterostructuresH. De Libero, E. Chalmers, N. Natera Cordero, A. Strudwick, I. Vera Marun, T. Thomson

University of Manchester, Manchester, United Kingdom

[View Digest Text](#)**SESSION HF: MAGNETORESISTANCE IN 2D MATERIALS AND TEXTURES**

Chair(s): K. Yamada, Chemistry and Biomolecular, Gifu University, Gifu, Japan

Friday, April 17, 2026

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HF-01. Controlling Spin Dynamics in Two-Dimensional Material–Magnetic Thin Film HeterostructuresM. Kamalakar

Physics and Astronomy, Uppsala University, Uppsala, Sweden

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HF-02. Highly Tunable Interfacial Magnetotransport in a 2D Antiferromagnetic Tunnel JunctionX. Ren³, R. Liu², Y. Zhang³, Y. LIU², X. Wu², K. Qian², K. Watanabe¹, T. Taniguchi⁴, Q. Shao^{2,3}¹Research Center for Electronic and Optical Material, National Institute for Materials Science (NIMS), Tsukuba, Ibaraki Prefecture, Japan, ²Department of Electronic and Computer Engineering, The Hong Kong University of Science and Technology, Hong Kong SAR, Hong Kong, ³Department of Physics, The Hong Kong University of Science and Technology, Hong Kong SAR, Hong Kong, ⁴Research Center for Materials Nanoarchitectonics, National Institute for Materials Science, Namiki, Tsukuba, Japan[View Digest Text](#)

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HF-03. Surface-States-Driven Tunnel Magnetoresistance in hcp-Co/h-BN/hcp-Co Magnetic Tunnel JunctionsI. Kurniawan¹, K. Masuda¹, Y. Miura^{1,2}¹Research Center for Magnetic and Spintronic Materials, National Institute for Materials Science (NIMS), Tsukuba, Ibaraki, Japan,²Kyoto Institute of Technology, Kyoto, Japan[View Digest Text](#)

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HF-04. 2D Ferromagnet Engineering by Pulse Laser Deposition for 2D-Magnetic Tunnel JunctionsJ. Daniel

Laboratory Albert Fert, CNRS, University of Paris-Sud, Orsay, France

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HF-05. Threefold Angular Hall Response from Direction-Selected Charge Compensation in WTe₂.A. Manna, S. Mukhopadhyay

Physics, Indian Institute of Technology Kanpur, Khirpaj, West Bengal, India

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HF-07. Enhancement of spin Hall angle by an order of magnitude via Cu intercalation in MoS₂/CoFeB heterostructures

S. Bedanta

School of Physical Sciences, NISER, Bhubaneswar, Jatani, Odissa, India

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HF-08. Spin Filtering and Momentum-Resolved Tunneling Modulation in van der Waals Multiferroic Tunnel Junctions

Y. Xu^{2,1}, W. Yang^{2,1}, S. Li^{2,1}, J. Han¹, X. L. Lin^{2,1}, W. Zhao^{2,1}

¹Fert Beijing Institute, School of Integrated Circuit Science and Engineering, Beihang University, Beijing, China, ²National Key Laboratory of Spintronics, Hangzhou International Innovation Institute, Beihang University, Hangzhou, China

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HF-09. Temperature Gradient-Driven Motion of Magnetic Domains in a Magnetic Metal Multilayer by Entropic Forces

L. Huang^{1,2}, J. Barker¹, L. Kailas¹, S. Hait¹, S. Connell¹, G. Burnell¹, C. Marrows¹

¹School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom, ²School of Material Science, University of Sheffield, Sheffield, United Kingdom

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HF-10. Thermoelectric fingerprinting of Bloch- and Néel-type skyrmions

C. Barker¹, E. Saugar², K. Zeisser^{1,3,7}, R. Puttock¹, P. Klapetek^{4,5}, O. Kazakova^{1,6}, C. Marrows³, O. Chubykalo-Fesenko², C. Barton¹

¹National Physical Laboratory, Teddington, United Kingdom, ²Institute of Materials Science of Madrid (ICMM-CSIC), Madrid, Spain, ³School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom, ⁴Czech Metrology Institute, Brno, Czechia, ⁵Brno University of Technology, Brn, Czechia, ⁶University of Manchester, Manchester, United Kingdom, ⁷Bragg Centre for Materials Research, University of Leeds, Leeds, United Kingdom

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HF-11. Measuring magnon spin current properties with resonant inelastic X-ray scattering

Y. Gu^{2,11}, J. Barker^{1,10}, J. Li², T. Kikkawa⁴, F. Camino³, K. Kisslinger³, J. Sinsheimer², L. Lienhard², J. J. Bauer⁵, C. A. Ross⁵, D. N. Basov⁶, E. Saitoh^{7,8,9}, J. Pellicciari², G. E. Bauer^{10,8}, V. Bisogni²

¹School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom, ²National Synchrotron Light Source II, Brookhaven National Laboratory, Upton, New York, United States, ³Center for Functional Nanomaterials, Brookhaven National Laboratory, Upton, New York, United States, ⁴Advanced Science Research Center, Japan Atomic Energy Agency, Tokai, Japan, ⁵Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States, ⁶Department of Physics, Columbia University, New York, New York, United States, ⁷Department of Applied Physics, The University of Tokyo, Tokyo, Japan, ⁸WPI Advanced Institute for Materials Research, Tohoku University, Sendai, Japan, ⁹Center for Emergent Matter Science (CEMS), RIKEN, Wako, Japan, ¹⁰Institute for Materials Research, Tohoku University, Sendai, Japan, ¹¹Beijing Tsinghua Institute for Frontier Interdisciplinary Innovation, Beijing, China

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SESSION HG: MAGNETOELECTRIC MATERIALS AND COMPLEX OXIDESChair(s): R. Ranchal, *Física de Materiales, Universidad Complutense de Madrid, Madrid, Spain*

Friday, April 17, 2026

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02:00 PM-02:30 PM**HG-01. Real-space observation of spin-orbit entangled 4f electrons in crystalline materials**S. Kitou*Department of Advanced Materials Science, The University of Tokyo, Kashiwa, Chiba, Japan*[View Digest Text](#)**02:30 PM-02:45 PM****HG-02. Impact of electron doping on magnetotransport in half-metallic $\text{Ca}_{2-x}\text{La}_x\text{MnRuO}_6$ double perovskites**L. Ishibe Veiga¹, A. Garcia Silva², R. Borges Pontes², E. Bittar³, L. Bufaiçal²¹*Diamond Light Source Ltd, Didcot, United Kingdom*, ²*Instituto de Física, Universidade Federal de Goiás, Goiania, Goiás, Brazil*,³*Centro Brasileiro de Pesquisas Físicas, Rio de Janeiro, Brazil*[View Digest Text](#)**02:45 PM-03:00 PM****HG-03. Anisotropic Magnetism and Magnetoelectric Coupling in Polar Cluster Magnets $\text{Ba}_6\text{Ln}_2\text{Fe}_4\text{O}_{15}$ (Ln = La, Pr, Nd)**T. Shirasaki, T. Ishikawa, H. Kuwahara*Science and Technology, Sophia University, Chiyoda, Tokyo, Japan*[View Digest Text](#)**03:00 PM-03:15 PM****HG-04. Effect of Pb Substitution at the Mo site on the Magnetic Properties of the Polar Magnet $\text{Fe}_2\text{Mo}_3\text{O}_8$** T. Ishikawa¹, S. Nakayama¹, T. Shirasaki¹, H. Kuwahara²¹*Sophia University, Tokyo, Japan*, ²*Sophia University, Tokyo, Japan*[View Digest Text](#)**03:15 PM-03:30 PM****HG-05. Magnetoelectric $\text{BaTiO}_3/\text{CoFe}_2\text{O}_4$ Freestanding Membranes for Wireless Neurostimulation**M. Mirjole¹, M. Kim¹, H. Ye¹, E. Zhang¹, A. Lahlahi-Attalhaoui^{1,2}, J. B. Carda², V. Pustovalov¹, B. Gebauer¹, D. Kim¹, X. Chen¹, B. Nelson¹, S. Pané¹¹*Multi Scale Robotics Lab, Zurich, Switzerland*, ²*Department of Inorganic and Organic Chemistry, Universitat Jaume I, Castellón de la Plana, Valencia, Spain*[View Digest Text](#)

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04:00 PM-04:30 PM**HG-06. Nonlinear optical functionalities in magnetoelectric materials**Y. Okamura*The University of Tokyo, Tokyo, Japan*[View Digest Text](#)

04:30 PM-04:45 PM**HG-07. Reprogrammable Magnonic Logic in a Magnetolectric Heterostructure**P. Che¹, A. Abdelsamie¹, Á. Papp^{2,3}, S. Salama⁵, A. Thiaville⁴, R. Lebrun¹, S. Fusil¹, V. Garcia¹, A. Vecchiola¹, K. Bouzehouane¹, M. Bibes¹, A. Barthelemy¹, J. Adam⁵, V. E. Demidov⁶, P. Bortolotti¹, A. Anane¹, [I. Boventer](#)¹¹Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France, ²Faculty of Information Technology and Bionics, Pazmany Peter Catholic University, Budapest, Hungary, ³Jedlik Innovation Kft, Budapest, Hungary, ⁴Laboratoire de Physique des Solides, CNRS, Université Paris-Saclay, Orsay, France, ⁵Centre de Nanosciences et de Nanotechnologies, CNRS, Université Paris-Saclay, Palaiseau, France, ⁶Institute of Applied Physics, University of Munster, Munster, Germany[View Digest Text](#)**04:45 PM-05:00 PM****HG-08. Magnetolectric Control of GHz Phase Shifting in Multiferroic Composite Thin-Film Heterostructures**[M. Du](#)¹, Y. Jin¹, J. Li¹, X. Xu¹, T. Wu^{1,2,3}¹ShanghaiTech University, Shanghai, China, ²Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, Shanghai, China, ³University of Chinese Academy of Sciences, Beijing, China[View Digest Text](#)**05:00 PM-05:15 PM****HG-09. Near and Far-Field Behaviour of a DC-Biased Magnetolectric Antenna**[T. Saha](#)^{2,1}¹university college Cork, Cork, Ireland, ²Micropower Devices and Nanomagnetism Group, Tyndall National Institute, Cork, Ireland[View Digest Text](#)**05:15 PM-05:30 PM****HG-10. S-Band FeGa/ZnO Magnetolectric Resonating Antennas for Ultra-Compact Microwave Devices**[M. Shojaei Baghini](#), M. McKinlay, D. Mukherjee, C. Garcia Nunez, H. Heidari

James Watt School of Engineering, University of Glasgow, Glasgow, Scotland, United Kingdom

[View Digest Text](#)**SESSION HH: FERROMAGNETIC RESONANCE AND SPIN WAVES IV**

Chair(s): R. Serha, Physics, University of Vienna, Vienna, Austria

Friday, April 17, 2026

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02:00 PM-02:30 PM**HH-01. Optical Control of Spin-Waves in Hybrid Magnonic-Plasmonic Structures**N. Kuznetsov¹, H. Qin², L. Flajsman¹, [S. van Dijken](#)¹¹Department of Applied Physics, Aalto University, Espoo, Finland, ²Wuhan University, Wuhan, China[View Digest Text](#)**02:30 PM-02:45 PM****HH-02. Coherent Spin Waves in Curved Ferromagnetic Nanocaps of a 3D-printed Magnonic Crystal**[K. Lenz](#)¹, H. Guo², M. Golebiewski³, R. Narkowicz¹, J. Lindner¹, M. Krawczyk³, D. Grundler²¹Magnetism Department, Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany, ²School of Engineering, Institute of Materials, Laboratory of Nanoscale Magnetic Materials and Magnonics, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland, ³Institute of Spintronics and Quantum Information, Faculty of Physics and Astronomy, Adam Mickiewicz University, Poznan, Poland[View Digest Text](#)

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HH-03. Switchable Nonreciprocity of Spin Wave Interference Patterns in In-plane/perpendicular-magnetic-anisotropy Waveguide SystemK. Omari^{3,4}, [X. Chen](#)¹, P. Meeson¹, W. Liu^{3,2}, M. Bryan³¹Department of Physics, Royal Holloway University of London, Egham, United Kingdom, ²Department of Engineering, University of Cambridge, Cambridge, United Kingdom, ³Department of Electronic Engineering, Royal Holloway University of London, Egham, United Kingdom, ⁴Open University, Milton Keynes, United Kingdom[View Digest Text](#)

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HH-04. Perpendicular standing spin waves in AuPt/GdFeCo induced by spin-orbit torques[D. Yun](#)¹, B. Ju², H. Koo¹, O. Lee¹¹Center for Semiconductor and Technology, Korea Institute of Science and Technology, Seoul, Korea (the Republic of), ²Department of Electrical Engineering, Korea University, Seoul, Korea (the Republic of)[View Digest Text](#)

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HH-05. Self-induced Floquet states via three-wave processes in synthetic antiferromagnetsT. Devolder, [J. Kim](#)

C2N, CNRS / Université Paris-Saclay, Palaiseau, France

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HH-06. Self-induced Floquet magnons in magnetic vortices[C. Heins](#)^{1,2}, L. Körber^{3,1,2}, Z. Xiong^{1,2}, J. Kim⁴, T. Devolder⁴, J. Mentink³, A. Titova⁵, J. Mueller⁵, R. Hübner¹, A. Worbs¹, A. Kákay¹, R. Narkowicz¹, G. Hlawacek¹, J. Fassbender^{1,2}, K. Schultheiss¹, H. Schultheiss¹¹Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany, ²Fakultät Physik, TU Dresden, Dresden, Germany, ³Institute of Molecules and Materials, Radboud University, Nijmegen, Netherlands, ⁴Centre de Nanosciences et de Nanotechnologies, Université Paris-Saclay, Paris, France, ⁵Globalfoundries, Dresden, Germany[View Digest Text](#)

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HH-07. Exploring the effects of low sheet resistance materials on ferromagnetic resonance[N. Kuninski](#), J. N. Scott, W. R. Hendren, T. E. McCormack, R. M. Bowman

Centre for Quantum Materials and Technologies, Queen's University Belfast, Coleraine, Londonderry, United Kingdom

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HH-08. On-Chip Integration of Voltage-Controlled Monolithic Magnetic MEMS for Tunable Magnonic Devices[S. Manton](#)¹, R. Lebrun¹, I. Boventer¹, P. Che¹, J. Ben Youssef², P. Bortolotti¹, P. Martins³, A. Anane¹¹Laboratoire Albert Fert, CNRS, Thales, Université Paris-Saclay, Palaiseau, France, ²LabSTICC, UMR 6285 CNRS, Université de Bretagne Occidentale, Brest, France, ³Thales Research and Technology, Palaiseau, France[View Digest Text](#)

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HH-09. Ultrastrong Magnon-Magnon Coupling in MRAM Layer Stacks[D. Backes](#)

Diamond Light Source, Didcot, United Kingdom

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HH-10. Graphene-like Topological Magnonic Crystals

B. Kaman, J. Lim, Y. Liu, A. Hoffmann

University of Illinois Urbana-Champaign, Urbana, Illinois, United States

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HH-11. Spin Wave - Domain Wall Interaction in a BiYIG Racetrack

P. S. Keatley¹, M. J. Gross², A. Del Giacco^{3,4}, N. Sandu³, C. B. Rodriguez⁵, L. Menna⁴, R. Bertacco⁴, L. Liu², R. Hicken¹, C. A. Ross⁵

¹*Department of Physics and Astronomy, University of Exeter, Exeter, United Kingdom*, ²*Department of Electrical Engineering and Computer Science, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States*, ³*Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States*, ⁴*Dipartimento di Fisica, Politecnico di Milano, Milano, Italy*, ⁵*Department of Materials, Imperial College London, London, United Kingdom*

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SESSION HP: SIMULATION AND DESIGN OPTIMIZATION OF ELECTROMAGNETIC SYSTEMS III (POSTER SESSION)

Chair(s): F. Zhao, *Harbin Institute of Technology (Shenzhen), Shenzhen, China*

Friday, April 17, 2026

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HP-01. Optimal Design Methodology of Dual-Rotor Dual Three-Phase PMSMs for Mitigating Circulating Harmonic Current

D. Park, T. Nam, I. Song, J. Jung, N. Kim, S. Jung

Sungkyunkwan University, Suwon, Korea (the Republic of)

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HP-02. Influence of Rotor Magnetic Field Sinusoidalization Design on Electromagnetic Vibration Characteristics of Surface-Mounted Permanent Magnet Synchronous Machines

R. Zhao, Z. Xu, Y. Xu, J. Zou

Department of Electrical Engineering, Harbin Institute of Technology, Harbin, China

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HP-03. Topology Optimization of Outer Rotor BLDC Motor for Electric Scooter Application

S. Hussain, A. Kallaste, M. Naseer, Z. Ahmad, T. Vaimann

Electrical Power Engineering and Mechatronics, Tallinn University of Technology, Tallinn, Tallinn, Estonia

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HP-04. Comparative Study of Double-Sided Superconducting and Permanent Magnets in Linear Motor: Electromagnetic Characteristics of Magnets and Thermal Performance of Superconductor

K. Matsuda, X. Ma, X. Peng, J. Luo

College of Electrical and Information Engineering, Hunan University, Changsha, Hunan Province, China

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HP-05. Influence of Electrical Steel Variability on Predicted Induction Motor Performance

A. Knight

Electrical and Software Engineering, University of Calgary, Calgary, Alberta, Canada

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HP-07. Modeling and Experimental Study on Demagnetization Prediction of Magnetic Shielding Systems

S. Shang^{1,2}, J. Sun^{1,2}, Z. Kan^{1,2}, X. Li^{1,2}, J. Ma³, J. Qian³

¹Hangzhou Innovat Inst, Zhejiang Prov Key Lab Ultraweak Magnet Field Space, Beihang University, Beijing, China, ²Sch Instrumentat & Optoelect Engr, Key Lab Ultraweak Magnet Field Measurement Technol, Minist Educ, Beihang University, Beijing, China, ³Hangzhou Institute of National Extremely-weak Magnetic Field Infrastructure, Hangzhou, China

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HP-08. Closed-Loop Dynamic BH Curve and Iron Loss Modeling for Manufacturing-Induced Degradation in Electrical Steels Using Ring Specimens

A. T. Huynh¹, G. Sengupta¹, M. Ilkhani¹, G. Vakil¹, C. Gerada¹, N. Sundaram¹, D. Chantzis², R. Koch³

¹Power Electronics and Machines Centre, Faculty of Engineering, University of Nottingham, Nottingham, United Kingdom, ²Ford Motor Company Ltd, Essex, United Kingdom, ³Ford-Werke GmbH, Cologne, Germany

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HP-09. Thermal Design and Comparison of Inner and Outer Rotor High Power Density PM Motors For Industrial Drone Applications

D. Bulut², H. Karabay³, M. Aydin¹

¹Mechatronics Engr., Kocaeli University, Umuttepe, Izmit, Kocaeli, Turkey, ²MDS Motor Ltd., Kocaeli, Turkey, ³Mechanical Engr., Kocaeli University, Kocaeli, Kocaeli, Turkey

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HP-12. Eddy current losses in pickup coils for high-frequency applications

M. Trbušič, V. Goričan, M. Jesenik

Faculty of Electrical Engineering and Computer Science, University of Maribor, Maribor, Slovenia

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HP-13. A Quasi-3D and Transfer Learning-Based DNN Approach for Accurate and Efficient Analysis of AFPMM

J. Park¹, J. Chin¹, D. Lim², D. Kim¹, H. Jung¹

¹Korea Automotive Technology Institute, Cheonan-si, Korea (the Republic of), ²Department of Electrical Engineering, University of Ulsan, Ulsan, Korea (the Republic of)

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HP-14. Warm-Start Level Set Optimization of Synchronous Reluctance Motors via Objective-Based Latent Space Shaping

M. Kishi¹, S. Wakao¹, H. Makino², K. Takeuchi², M. Matsushita²

¹School of Advanced Science and Engineering,, Waseda university, Tokyo, Tokyo, Japan, ²Toshiba Corporation, Tokyo, Japan

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SESSION HQ: BIOMEDICAL APPLICATION AND MAGNETOFLUIDS (POSTER SESSION)Co-Chair(s): P. Tiberto, *INRIM, Torino, Italy* and Y. Ichiyanagi, *Physics, Yokohama National University, Yokohama, Japan*

Friday, April 17, 2026

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Exchange Hall

HQ-01. Magnetic Hyperthermia at Different Physiological Thresholds: Beyond the Spherical Particles with Uniaxial Anisotropy ApproachN. Cam^{1,2}, D. Serantes^{1,2}, Q. Iglesias³¹*Faculty of Physics-Applied Physics Department, University of Santiago de Compostela, Santiago de Compostela, La Coruña, Spain*, ²*Instituto de Materiais iMATUS, Santiago De Compostela, Coruna, Spain*, ³*Dept. de Física de la Matèria Condensada, Universitat de Barcelona and IN2UB, Barcelona, Spain*[View Digest Text](#)**HQ-02. Application of Analytic Learned Iterative Shrinkage Thresholding Algorithm in Magnetic Particle Imaging with Sensor Array**T. Matsushita, T. Yoshida, T. Sasayama*Kyushu University, Fukuoka, Japan*[View Digest Text](#)**HQ-03. Analyzing the vortex flow in aneurysm phantoms by magnetic particle spectroscopy**B. Kluwe¹, L. Truttenbach^{1,2}, M. Loeffler³, U. Heinen², S. Dutz^{3,4}, F. Wiekhorst¹¹*Metrology for Magnetic Nanoparticles, Physikalisch-Technische Bundesanstalt, Berlin, Germany*, ²*Faculty of Technology, University of Pforzheim, Pforzheim, Germany*, ³*Faculty of Physical Engineering/Computer Sciences, University of Applied Science Zwickau, Zwickau, Germany*, ⁴*Institute of Biomedical Engineering and Informatics, TU Ilmenau, Ilmenau, Germany*[View Digest Text](#)**HQ-04. The role of inter-particle interactions in magnetic hyperthermia**S. Gleadhall¹, S. Ruta¹, Y. Fernandez-Afonso², A. Paez-Rodriguez³, T. S. van Zanten³, R. M. Fratila³, M. Moros³, M. d. Morales², A. Satoh⁴, R. W. Chantrell⁵, D. Serantes⁶, L. Gutiérrez³, D. Cleaver¹¹*Sheffield Hallam University, Rotherham, United Kingdom*, ²*Instituto de Ciencia de Materiales de Madrid, Madrid, Spain*, ³*Instituto de Nanociencia y Materiales de Aragón (INMA, CSIC/UNIZAR) and CIBER-BBN, Zaragoza, Spain*, ⁴*Akita Prefectural University, Akita, Japan*, ⁵*University of York, York, United Kingdom*, ⁶*Universidade de Santiago de Compostela, Santiago de Compostela, Spain*[View Digest Text](#)**HQ-05. Collaborative Robot Automated Transcranial Magnetic Stimulation Coil Characterization and E-Field Mapping**L. Schorr¹, W. Lohr², R. L. Hadimani¹¹*Mechanical and Nuclear Engineering, Virginia Commonwealth University, Henrico, Virginia, United States*, ²*Biomedical Engineering, Virginia Commonwealth University, Richmond, Virginia, United States*[View Digest Text](#)**HQ-06. TMS Phantoms for Investigating the Application of a Wearable Magnetic Shield for Multimodal Neuromodulation Procedures**W. Lohr¹, T. Atalugama², B. Embree², S. Smith³, J. Chen⁴, H. P. Shah⁴, K. Holloway⁴, R. L. Hadimani^{2,1}¹*Biomedical Engineering, Virginia Commonwealth University, Richmond, Virginia, United States*, ²*Mechanical Engineering, Virginia Commonwealth University, Richmond, Virginia, United States*, ³*Chemical and Life Sciences, Virginia Commonwealth University, Richmond, Virginia, United States*, ⁴*Neurosurgery, Virginia Commonwealth University, Richmond, Virginia, United States*[View Digest Text](#)

HQ-07. Development of static and dynamic flow phantoms for harmonization of magnetic particle imaging

M. Löffler¹, B. Kluwe³, C. Fiedler¹, F. Wiekhorst³, S. Dutz^{1,2}

¹Faculty of Physical Engineering/Computer Sciences, University of Applied Science Zwickau, Zwickau, Saxony, Germany, ²Institute of Biomedical Engineering and Informatics, Technische Universität Ilmenau, Ilmenau, Thuringia, Germany, ³Metrologie für magnetische Nanopartikel, Physikalisch-Technische Bundesanstalt, Berlin, Brandenburg, Germany

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HQ-08. Ferrofluid droplets for visualizing astrophysical and mechanical phenomena in educational settings

Z. Boekelheide

Physics, Lafayette College, Easton, Pennsylvania, United States

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HQ-10. Development of thin type Dental Magnetic Attachment with High Retention Force

C. Mishima, T. Mitunaga, E. Kikuchi, Y. Honkura

Magnedesign, Aichi-ken, Mihama-cho, Japan

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HQ-11. Development of a Low-Cost Vacuum-Based Ischemic Stroke Model for Studying Neuronal Cell Response

A. Fuller, M. Pirbhai

Physics, St. Lawrence University, Canton, New York, United States

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HQ-12. Energy-Based Physics-Informed Neural Networks for Magneto-Structural Modeling of Self-Assembled Magnetic Soft Millirobots

Y. Lee, J. Lee, S. Cho, D. Lee, S. Jeon

Mechanical and Automotive Engineering, Kongju National University, Cheonan, Chungnam, Korea (the Republic of)

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HQ-13. Magnetic Hyperthermia Based on Hysteresis Heating Alone

K. O'Grady^{1,2}, V. Patel², I. Jones², G. Vallejo Fernandez¹

¹University of York, York, United Kingdom, ²Liquids Research Limited, Bangor, United Kingdom

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HQ-14. Fabrication of Luminescent Self-Regulating Hyperthermia Core-Shell Nanoparticles of Gadolinium Oxide Shell over Gadolinium Silicide Core

S. Smith², S. B. Naranjo², J. R. Marin¹, A. Kumar³, R. Kuchi³, I. Z. Hlova³, Y. Mudryk³, R. L. Hadimani²

¹Kansas State University, Manhattan, Kansas, United States, ²Virginia Commonwealth University, Richmond, Virginia, United States, ³Iowa State University, Ames, Iowa, United States

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HQ-15. Physics-Residual-Informed Synergy of Deep Learning and Finite Element Method for Electrical Impedance Tomography Field Computation

H. Yu, C. Wang, H. Fang, Z. Liu

The university of Edinburgh, Edinburgh, Midlothian, United Kingdom

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SESSION HR: MAGNETO-CALORIC AND NANOCOMPOSITE MATERIALS (POSTER SESSION)Chair(s): B. Stadler, *University of Minnesota, Minneapolis, Minnesota, United States*

Friday, April 17, 2026

02:30 PM-05:30 PM

Exchange Hall

HR-02. Magnetocaloric Performance of DyFe₂Al₁₀ for Clean Refrigeration TechnologiesK. Pal², S. Ghosh¹¹Physics, Aditya University, Surampalem, Andhra Pradesh, India, ²CMP, Saha Institute of Nuclear Physics, A CI of Homi Bhabha National Institute, Kolkata, West Bengal, India[View Digest Text](#)**HR-03. Magnetocaloric and Critical Behavior Studies in (Nd_{0.6}Y_{0.4})₂CoMnO₆ Double Perovskite**N. Nayak, S. Ravi

Department of Physics, Indian Institute of Technology Guwahati, Guwahati, Assam, India

[View Digest Text](#)**HR-04. Multiscale Modelling of Magnetocaloric Effects in Fe₂(P,Si) Alloys**B. Narangerel¹, M. Adiya¹, K. Jong-Woo², D. Odkhuu¹¹Physics, Incheon National University, Yeonsu-gu, Incheon, Korea (the Republic of), ²Korea Institute of Materials Science, Changwon, Korea (the Republic of)[View Digest Text](#)**HR-06. Reactive spark plasma-assisted processing of powdered RNi₂ magnetocaloric compounds (R= Dy, Tb)**K. Padron Aleman^{1,2}, R. U. Pérez Batalla³, J. L. Sanchez Llamazares³¹Diffraction, Institut Laue Langevin, Grenoble, France, ²Physics, University of Oviedo, Oviedo, Spain, ³Materiales Avanzados, Instituto Potosino de Investigacion Cientifica y Tecnologica A.C. (IPICYT), San Luis Potosi, Mexico[View Digest Text](#)**HR-07. Characterization of the magnetic dynamic behavior in magnetic polymer composite toroids fabricated with 3D Printing**L. E. Guerra^{1,2}, M. H. Montiel², E. F. Pinzón²¹Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México, Mexico City, Mexico City, Mexico,²Instituto de Ciencias Aplicadas y Tecnología, Universidad Nacional Autónoma de México, Mexico City, Mexico[View Digest Text](#)**HR-08. Conformal Nanoscale Al₂O₃ Layer on Fe-Si Soft magnetic Powders Using Rotary Reactor-Based Powder Sputtering for High-Frequency Applications**Y. Kim^{1,2}, Y. Choi¹, S. Jang¹, M. Lee^{1,3}, S. Oh¹, Y. Park¹¹Korea Institute of Industrial Technology, Incheon, Korea (the Republic of), ²Department of Materials Science and Chemical Engineering, Hanyang University, Ansan, Korea (the Republic of), ³Qurochem Co., Ltd., Incheon, Korea (the Republic of)[View Digest Text](#)

SESSION HS: FERROMAGNETIC RESONANCE AND SPIN WAVES V (POSTER SESSION)Chair(s): S. Saha, *Department of Physics, Ashoka University, Baden, Switzerland*

Friday, April 17, 2026

02:30 PM-05:30 PM

Exchange Hall

HS-02. Modelling spin-wave wave packets excited by an RF pulse for signal demultiplexingG. Y. Thiancourt^{2,1}, T. Devolder^{2,1}¹*Université Paris-Sud, Massy, France*, ²*Université Paris-Saclay, Palaiseau, France*[View Digest Text](#)**HS-04. Interfacial Hybrid States and Spinterface Effects in CoFeB/Alq₃ Magnetic Thin Films**S. P. Mahanta¹, A. Sahoo¹, A. Mukhopadhyaya², S. Nayak¹, T. Hase³, M. Ali², D. Atkinson⁴, S. Bedanta^{1,5}¹*NISER Bhubaneswar, Khurda, Odisha, India*, ²*Institute of Nano Science and Nano Technology, Mohali, Punjab, India*, ³*University of Warwick, Coventry, United Kingdom*, ⁴*Durham University, Durham, United Kingdom*, ⁵*CIS NISER, Khurda, India*[View Digest Text](#)**HS-05. Probing Spin-wave Nonreciprocity in Ferromagnet/Superconductor Hybrids**J. Klima¹, E. Pribytova^{1,2}, J. Holobrádek¹, O. Wojewoda^{1,3}, K. Szulc^{1,4}, V. Danchuk¹, J. Kharlan^{4,5}, J. W. Klos⁴, M. Urbánek^{1,2}¹*CEITEC, Brno University of Technology, Brno, Czechia*, ²*Institute of Physical Engineering, Brno University of Technology, Brno, Czechia*, ³*DMSE, Massachusetts Institute of Technology, Cambridge, Massachusetts, United States*, ⁴*ISQI, Faculty of Physics and Astronomy, Adam Mickiewicz University, Poznan, Poland*, ⁵*Institute of Magnetism, NASU and MESU, Kyiv, Ukraine*[View Digest Text](#)**HS-07. Role of optical and magnetic contributions in microfocused Brillouin light scattering spectra.**N. Benaziz¹, T. Devolder¹, S. Andrieu², J. Adam¹¹*CNRS, University of Paris-Sud, Gif-sur-Yvette, France*, ²*Institut Jean Lamour, Nancy, France*[View Digest Text](#)**HS-08. Electrical measurement of spin-wave propagation in Bi:YIG across saturation and stripe domain phases**V. Leroy¹, J. Kim¹, J. Ben Youssef², T. Devolder¹, T. Srivastava¹¹*C2N, CNRS, University of Paris-Sud, Palaiseau, France*, ²*Lab-STICC, CNRS, Université Bretagne Occidentale, Brest, France*[View Digest Text](#)**HS-09. Floquet magnons in C-state dynamics**L. Kokkinos^{1,2}, J. Kim^{1,2}¹*Université Paris-Saclay, Gif-sur-Yvette, France*, ²*Centre de Nanosciences et de Nanotechnologies, Palaiseau, France*[View Digest Text](#)**HS-10. 3-port spin wave spectroscopy on a micron-sized rectilinear circulator**K. S. Weber^{1,6,2}, L. Temdie^{1,6,5}, V. M. Castel^{1,6}, C. Dubs⁴, Y. Henry³, M. Bailleul³, V. Vlaminck^{1,6}¹*Microwave, IMT Atlantique, Birmenstorf AG, Aargau, Switzerland*, ²*QZabre Ltd., Zürich, Switzerland*, ³*IPCMS, Strasbourg, France*, ⁴*Innovent e.V., Jena, Germany*, ⁵*CEA IRAMIS, Paris / Gif-sur-Yvette, France*, ⁶*Lab-STICC, Brest, France*[View Digest Text](#)**HS-11. Band structure engineering to optimize spin-wave propagation in Weyl ferromagnet Co₂MnGa_{1-x}Ge_x**H. Song^{1,2}, J. Wang^{1,2}, J. Chen², S. Granville³, H. Yu^{1,2}¹*Beihang University, Beijing, China*, ²*International Quantum Academy, Shenzhen, China*, ³*Robinson Research Institute, Wellington, Netherlands*[View Digest Text](#)

HS-12. XRMS study of stripe domains in NdCo₅/Cu/ Fe₂₀Ni₈₀ trilayers for reconfigurable magnonic devices

J. Díaz¹, L. M. Álvarez-Prado¹, D. S. Schmool², D. Markó³, D. Pérez⁴, M. Valvidares⁴

¹Physics, Universidad de Oviedo, Oviedo, Asturias, Spain, ²Physics, Groupe d'Etude de la Matière Condensée, Université Paris-Saclay, Versailles, Paris, France, ³Silicon Austria Labs GmbH, Graz, Austria, ⁴ALBA Synchrotron, Barcelona, Cataluña, Spain

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HS-13. Dynamics of a Spin-Wave Active Ring Resonator Driven by Unipolar 8-bit Walsh Code

A. Mukhopadhyay, K. Narayan, A. Prabhakar

Electrical Engineering, Indian Institute of Technology Madras, India, Chennai, Tamil Nadu, India

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HS-14. Frequency multiplication of edge spin-waves in the antidot lattices

N. C S², Y. Kharlan^{1,3}, M. Golebiewski¹, J. W. Klos¹, P. Gruszecki¹, R. V. Verba³, M. Krawczyk¹

¹Faculty of Physics and Astronomy, Adam Mickiewicz University, Poznan, Poland, ²Electronics and Communication Engineering Department, National Institute of Technology, Calicut, Kozhikode, India, ³V. G. Baryakhtar Institute of Magnetism of the NAS of Ukraine, Kyiv, Ukraine

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HS-15. Spin-wave implementation within the VAMPIRE software package

S. Ruta¹, J. Hirst¹, R. Ababei^{1,2}, R. F. Evans³, T. Ostler¹

¹Sheffield Hallam University, Sheffield, United Kingdom, ²Alexandru Ioan Cuza University of Iasi, Iasi, Romania, ³University of York, York, United Kingdom

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GET CURIOUS OUTREACH EVENT

Chair(s): I. Vera Marun, *University of Manchester, Manchester, United Kingdom*

Saturday, April 18, 2026

10:00 AM-03:00 PM

Offsite - Manchester Museum of Science & Technology

SESSION VP1: EMERGING TECHNOLOGIES IN LINEAR ACTUATORS, MAGNETIC BEARINGS, AND WIRELESS CHARGINGChair(s): P. Huang, *Mechanical Engineering, National Cheng Kung University, Tainan, Taiwan*

Wednesday, May 6, 2026

08:30 AM-08:30 PM

Conference Resource Center (On-Demand)

VP1-01. Comparison and Analysis of CPM and SPM Bearingless Machines Based on 90-Degree Sector d-q Axis Current ControlQ. Zhang, [Y. Zhang](#), J. Wang, W. Xu*Southeast University, Nanjing, Jiangsu, China*[View Digest Text](#)**VP1-02. Analytical Design of High Frequency Magnetic Coupling Inductive Transformer for Wireless In-wheel Motor**[P. Jin](#), Y. Guo, J. Wang*College of Electrical and Power Engineering, Hohai University, Nanjing, Jiangsu, China*[View Digest Text](#)**VP1-03. Design and Analysis of a Permanent Magnet Arc Motor with Axially Staggered Rotor Pole Structure**[Z. Pan](#)¹, J. Jiang¹, J. Zhao¹, J. Cai¹, H. Chen¹, A. Fang¹, G. Qiang², K. Shen³¹*School of Electrical Engineering and Automation, Hefei University of Technology, Hefei, Anhui, China,* ²*Yangtze River Delta HIT Robot Technology Research Institute, Wuhu, Anhui, China,* ³*Hefei Haiyuan Machinery Co., Ltd., Hefei, Anhui, China*[View Digest Text](#)**VP1-04. Gaussian Process Regression of AC Core Loss in Magnetic Powder Cores Based on Process Conditions and Static Magnetic Properties**[S. Muroga](#)¹, Y. Kodama¹, S. Matsumoto¹, S. Ajia¹, Y. Endo^{1,2}¹*Graduate School of Engineering, Tohoku University, Sendai, Sendai, Japan,* ²*Center for Science and Innovation in Spintronics, Tohoku University, Sendai, Miyagi, Japan*[View Digest Text](#)**VP1-05. Parity-Time-Symmetric-Oriented Modulation for Drone Wireless In-Flight Charging System with High Misalignment Tolerance**[Y. Gu](#)^{1,2}, Y. Zhu^{1,2}, J. Si^{1,2}, H. Wang^{1,2}, Z. Zhang^{1,2}¹*State Key Laboratory of Smart Power Distribution Equipment and System, Tianjin University, Tianjin, China,* ²*School of Electrical and Information Engineering, Tianjin University, Tianjin, China*[View Digest Text](#)**VP1-07. A Miniaturized Multi-Drum Magnetorheological Actuator with Shared Magnetic Flux for Enhanced Torque Output**[Y. Mo](#)^{2,1}, A. Song², H. Qin³¹*Duke-NUS Medical School, National University of Singapore, Singapore, Singapore,* ²*School of Instrument Science and Engineering, Southeast University, Nanjing, China,* ³*College of Artificial Intelligence, Nanjing Agricultural University, Nanjing, China*[View Digest Text](#)**VP1-08. Rapid Prediction of Cold-Start Transient Temperature Fields in Mechanical-Electrical-Hydraulic Systems via Non-Overlapping Domain Decomposition**[Z. He](#), J. Gao, Y. Zhao, Q. Su, Z. Cheng*College of Electrical and Information Engineering, Hunan University, Hunan Province, China*[View Digest Text](#)

VP1-09. Performance Analysis of a Dual-Field-Modulated Quasi-Tubular Linear Generator with Halbach array for Direct-Drive Wave Energy Conversion

N. Shrivastava, S. Sampathirao, B. Subudhi

school of electrical sciences, Indian Institute of Technology Goa, Ponda, Goa, India

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VP1-10. Neural-Network-Based Model Optimization of Linear Permanent Magnet Synchronous Machine for Wave Energy Harvesting Applications

M. Nguyen¹, D. Hoang¹, K. Shin², J. Choi¹

¹*Electrical Engineering, Chung Nam National University, Daejeon, Korea (the Republic of)*, ²*Electrical Engineering, Changwon National University, Changwon, Korea (the Republic of)*

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VP1-11. Modal Analysis of High-Speed Tubular Linear Synchronous Motor for Electromagnetic Launch Application

D. N. Gawas, G. Kamepalli, N. Navab, S. Sampathirao

School of Electrical Sciences, Indian Institute of Technology Goa, Ponda, Goa, India

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VP1-12. A Halbach-Array-Inspired Coil for Magnetothermal Equilibrium Optimization in 11.1-kW Wireless Power Transfer Systems

X. Zhang^{1,2}, Y. Li^{1,2}, Y. Wei^{1,2}, F. Xu^{1,2}, H. Wang^{1,2}, Z. Chen^{1,2}

¹*State Key Laboratory of Smart Power Distribution Equipment and System, Tianjin, China*, ²*Hebei Key Laboratory of Equipment and Technology Demonstration of Flexible DC Transmission, Tianjin, China*

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VP1-13. Improved Parallel Plate Capacitor Model Considering Edge Effect Using Correction Factor Derived Based on Regression Analysis

A. K. Das¹, B. G. Fedrnandes²

¹*Electrical and Computer Engineering, National University of Singapore, Singapore, Singapore*, ²*Electrical Engineering, Indian Institute of Technology Bombay, Mumbai, Maharashtra, India*

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VP1-14. Performance Analysis of a Flux-Reversal Transverse Flux Permanent Magnet Linear Generator Using Electromagnetic-Thermal Coupling Method

M. Chen¹, Z. Zhou¹, L. Huang^{2,3}, H. Yang^{2,4}, R. Guo³, Y. Sun¹, Z. Zhu¹, Y. Li^{2,3}, Y. Sheng¹

¹*School of Electric Power Engineering, Nanjing Institute of Technology, Nanjing, Jiangsu, China*, ²*Marine Renewable Energy Engineering Center, Advanced Ocean Institute of Southeast University, Nantong, Jiangsu, China*, ³*School of Electrical Engineering, Southeast University, Nanjing, Jiangsu, China*, ⁴*College of Automation Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, Jiangsu, China*

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VP1-15. A Die-on-PCB Package Enabling High-Power-Density Wireless Power Transfer

Y. Wang², W. Liu², Z. Li², S. Niu², L. Wang¹, K. Chau²

¹*The State Key Laboratory of Electrical Insulation and Power Equipment, Xi'an Jiaotong University, Xian, China*, ²*Research Centre for Electric Vehicles and Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, Hong Kong*

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VP1-16. Variable Leakage Inductance High-frequency Transformer Having Current-dependent Characteristics Inherent to the Magnetics DesignA. K. Das¹, B. G. Fedrnandes²¹Electrical and Computer Engineering, National University of Singapore, Singapore, Singapore, ²Electrical Engineering, Indian Institute of Technology Bombay, Mumbai, Maharashtra, India[View Digest Text](#)**VP1-17. Measurement and Analysis of Magnetic Properties in the Laminated Silicon Steel with External Mechanical Stress Perpendicular to Steel Plane under Overlapped DC and AC Magnetization**

C. Feng, Y. Zhang, F. Li, Z. Wang, D. Zhang

School of Electrical Engineering, Shenyang University of Technology, Shenyang, Liaoning, China

[View Digest Text](#)**VP1-18. Investigation on Vibration Characteristics of Amorphous Alloy Wound Core Transformer Under Different Mounting Conditions**Z. Dong^{1,2}, S. Yue^{1,2}, H. Sun^{1,2}, T. Chen^{1,2}, Y. Li^{1,3}, Y. Li^{1,2}¹State Key Lab of Intelligent Power Distribution Equipment and System, Hebei University of Technology, Tianjin, Tianjin, China,²Hebei Key Laboratory of Equipment and Technology Demonstration of Flexible DC Transmission, Hebei University of Technology, Tianjin, Tianjin, China, ³School of Engineering, Cardiff University, Cardiff, Wales, United Kingdom[View Digest Text](#)**VP1-19. PCB-Embedded SiC MOSFET Packaging Using Shield to Suppress Near-Field Magnetic Radiation**Z. Li¹, W. Liu¹, Y. Wang¹, L. Wang², K. Chau¹¹Research Centre for Electric Vehicles and Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China, ²State Key Laboratory of Electrical Insulation and Power Equipment, Xi'an Jiaotong University, Xi'an, China[View Digest Text](#)**VP1-20. Magnetic Coupling Path Reconfiguration in Multi-Node Domino Wireless Power Transfer Systems for Insulator Monitoring**

W. Wang, P. Li

Nanjing Normal University, Nanjing, Jiangsu, China

[View Digest Text](#)**SESSION VP2: ENERGY, MICROWAVE AND SENSOR APPLICATIONS II**

Chair(s): S. Greaves, Tohoku University, Sendai, Japan

Wednesday, May 6, 2026

08:30 AM-08:30 PM

Conference Resource Center (On-Demand)

VP2-01. Non-Contact Measurement for Backside Defect in Ferromagnetic Steel Plate Using Electromagnetic Force VibrationS. Niwa¹, Y. Gotoh²¹Graduate School of Science and Technology, Gunma University, Kiryu city, Gunma pref., Japan, ²Faculty of Science and Technology, Oita University, Oita city, Oita pref., Japan[View Digest Text](#)**VP2-02. Electromagnetic Model Analysis and Design of Magnetostrictive Detector for Deep-Earth Stress Monitoring**Q. Wang¹, C. Song¹, P. Guo², T. He³, P. Wang³¹North China University of Science and Technology, Tangshan, China, ²Shanxi University, Taiyuan, ShanXi, China, ³Chinese Institute of Coal Sciences, Beijing, China[View Digest Text](#)

VP2-03. Evaluation of Defect Height Using Deep Learning Based on Rectangular Wave Eddy Current Testing

Z. Guo, T. Sasayama

Department of Electrical and Electronic Engineering, Kyushu University, Fukuoka, Japan

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VP2-04. Robust Power Region Expansion and Quantification for Drone Wireless In-flight Charging System using High-Order Topology

Z. Zhang^{1,2}, J. Bao^{1,2}, X. Shen^{1,2}, Y. Gu^{1,2}

¹State Key Laboratory of Smart Power Distribution Equipment and System, Tianjin University, Tianjin, China, ²School of Electrical and Information Engineering, Tianjin University, Tianjin, China

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VP2-06. First-Principles Analysis of Gas sensing on Magnetic Fe₃O₄ Surfaces

S. Talebniya^{2,1}, C. González^{2,1}, P. de la Presa^{2,1}, P. Marin^{2,1}

¹Universidad Complutense de Madrid, Madrid, Madrid, Spain, ²Institute of Applied Magnetism (UCM-ADIF), Madrid, Spain

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VP2-07. Voltage-Controlled Tunneling Magnetoresistance Using Ferroelectric Tunnel Barriers

T. F. Alhuwaymel¹, U. T. Alhuwaymel², A. AlMutairi³

¹Microelectronic and Semiconductor Institute, King Abdulaziz City for Science and Technology (KACST), Riyadh, Saudi Arabia,

²National Company of Telecommunications and Information Security (NTIS), Riyadh, Saudi Arabia, ³King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia

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VP2-08. Dependence of Internal Bias Field Non-Uniformity on Aspect Ratio in Magnetic Tunnel Junctions

R. Chen¹, R. Bi¹, Y. Li², Y. Li², J. Hu¹, J. He¹

¹Tsinghua University, Beijing, China, ²Hebei University of Technology, Tianjin, China

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VP2-09. Optimisation of Macro-Fiber Composite, FeCoSiB-based, Mechanically Resonant Antennas

A. Charles

Platforms Division, Defence Science and Technology Group, Port Melbourne, Victoria, Australia

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VP2-10. Development of a GSR Sensor (nT Meter) for Particle Detection

Y. Honkura, S. Honkura, M. Hikishima

MagneDesign, Mihama, Aichi, Japan

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SESSION VP3: HIGH-SPEED MACHINES

Chair(s): J. Bird, *Electrical and Computer Engineering, Portland State University, Portland, Oregon, United States*

Wednesday, May 6, 2026

08:30 AM-08:30 PM

Conference Resource Center (On-Demand)

VP3-01. Investigation of Loss and Thermal Characteristics of Rotor With Solid Yoke for Surface-Mounted High-Speed Permanent Magnet Machine

Y. Pan, J. Yang, S. Huang

Hunan University, Changsha city, Hunan province, China

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VP3-02. Design and Analysis of Flux-Switching Single-Stator Dual-Internal-Rotor PM Machines with Integrated Winding

Z. Zhang, M. Jiang, Z. Dong, Z. Zhang, S. Niu, K. Chau

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

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VP3-03. Impact of Thermo-Mechanical Rotor Deformation on Performance of High-Speed Interior Hairpin Motors

J. Li¹, S. Zhang¹, P. Li¹, Y. An¹, R. Pei^{1,2}, L. Zeng²

¹Shenyang University of Technology, Shenyang, Liaoning, China, ²Suzhou INN-MAG New Energy Technology Co.,Ltd, Suzhou, Jiangsu, China

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VP3-04. Analytical Calculation of AC Copper Loss of Multi-Strand Flat Conductor for High-Power Density Traction Applications

Y. Du¹, Y. Huang², B. Guo³, Y. Li¹, R. Wang¹, Y. Wu¹, S. Ding¹, H. Igarashi⁴

¹Anhui University, Hefei, Anhui, China, ²School of Electrical Engineering, Southeast University, Nanjing, China, ³School of Electrical and Automation Engineering, Nanjing Normal University, Nanjing, China, ⁴Data-Driven Interdisciplinary Re-search Emergence Department (D-RED), Hokkaido University, Sapporo, Japan

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VP3-05. Research and Analysis on the Performance of High Speed Motor at Overspeed Considering the Characteristic of High Strength Silicon Steel

Y. Li¹, Y. Li¹, L. Zeng², R. Pei^{1,2}

¹Shenyang University of Technology, Shenyang, Liaoning, China, ²Suzhou Inn-Mag New Energy Co. Ltd., Suzhou, China

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VP3-06. AC Copper Loss Reduction in Hairpin Windings Using Additively Manufactured Varying Electrical Conductivity for HSPMM

G. Zhang, J. Yang, S. Huang, S. Huang

Hunan University, Changsha, Hunan, China

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VP3-07. A Novel High-Speed Homopolar Inductor Machine With Multifunctional Stator for Gas Turbine Power Generation Systems

L. Zhong, J. Yang, S. Huang, S. Huang

Hunan University, Changsha, China

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VP3-08. Research of a Novel Hairpin-Litz Wire Hybrid Winding High-Speed Machine with Five-Segment Halbach PM Array

P. Li, J. Li, S. Zhang, L. Zeng, R. Pei

Shenyang University of Technology, Shenyang, China

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VP3-09. Ferroresonance Frequency Response of Micro-Unmanned Aerial Vehicle Motor Flight Attitude

C. Hsu

Department of Mechanical Engineering, National Yunlin University of Science and Technology, Douliu City, Yunlin County, Taiwan

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VP3-10. A Novel Bidirectional Field-Modulation Permanent Magnet Motor With High Overload Capability

J. Cao, S. Fang, X. Lin

Southeast University, Nanjing, Jiangsu, China

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VP3-11. Power-Dense Design and Optimization for 1MW-Class PM Aircraft Propulsion Motors with Unequal Hybrid Halbach Segmentation

A. T. Huynh, M. Degano, T. Zou, D. Gerada, T. Yang, C. Gerada

Power Electronics, Machines and Control Research Institute, University of Nottingham, Nottingham, Nottinghamshire, United Kingdom

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SESSION VP4: PERMANENT MAGNET MACHINES AND MAGNETICALLY GEARED MACHINES V

Chair(s): V. Chaudhary, *Department of Mechanical Engineering, Chalmers University of Technology, Gothenburg, Sweden*

Wednesday, May 6, 2026

08:30 AM-08:30 PM

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VP4-01. Synergistic Design of Dual Excitation Sources of Pole-changing PM Motors for Operation Range Extension and Harmonic Decoupling

Z. He, F. Xiao, Y. Du, X. Zhu

Jiangsu University, Zhenjiang, Jiangsu, China

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VP4-02. Novel Double-Vernier PM Motor for High-Torque Low-Speed Light All-Terrain Vehicle

N. Shrivastava, D. N. Gawas, S. Sampathirao

School of Electrical Sciences, Indian Institute of Technology Goa, Ponda, Goa, India

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VP4-03. Novel Magnetically-Geared Line-Start Permanent Magnet Synchronous Motor for Grinder Application

D. N. Gawas, N. Shrivastava, S. Sampathirao

School of Electrical Sciences, Indian Institute of Technology Goa, Ponda, Goa, India

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VP4-04. A Dual-Stator Synchronous-Vernier Permanent Magnet Machine: Comprehensive Design-Space Study for Power Factor Enhancement

L. Dai, S. Niu, X. Huang, Z. Lyu, Z. Sun, K. Chau

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, Hong Kong

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VP4-05. Study on Axial-Flux Dual-Permanent Magnet Machines Considering Multiple Leakage-Flux Effects

M. Jia^{1,2}, Y. Feng^{1,2}, B. Ma^{1,2}, C. Huang^{1,2}, S. Huang^{1,2}

¹Hunan University, Changsha, China, ²State Key Laboratory of Offshore Wind Power Equipment and Wind Energy High-Efficient Utilization, Changsha, China

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VP4-06. A Novel Dual Spoke Permanent Magnet Rotor Axial-Flux Vernier Machine with Toroidal Winding and Auxiliary Radial Stator Core

L. Wu, F. Yang, Z. Wang

School of Automation and Electrical Engineering, Linyi University, Linyi, Shandong, China

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VP4-07. Efficient Subspace-based Multi-objective Optimization of V-SPMV Motors Using Dimensionality Reduction Methods

D. Fan, K. Liu, H. Tian

Jiangsu University, Zhenjiang, China

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VP4-08. Flux-Controllable Design and Analysis of a Permanent Magnet Vernier Motor for Torque–Speed Performance Enhancement

D. Fan, L. Qiu

Jiangsu University, Zhenjiang, China

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VP4-09. An N-S-Iron Encoded Topology Design Method with Flux Barriers for Eliminating End Unipolar Leakage Flux in CPM Machines

Q. Zhang, J. Wang, W. Xu

School of Electrical Engineering, Southeast University, Nanjing, Jiangsu province, China

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VP4-10. Research of a Novel 2-D Halbach Array for Axial Flux Permanent Magnet Machine with High Torque Density

T. Liu, K. Yang, F. Xiong, C. Luo, J. Li

Huazhong University of Science and Technology, Wuhan, Hubei, China

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VP4-11. Effects of Eddy Currents and Hysteresis Phenomenon in Laminated Cores on Speed-Torque Characteristics of Interior Permanent Magnet Synchronous Motors for Variable Speed Applications

K. Yamazaki, S. Nakajima

Electrical and Electric Engineering, Chiba Institute of Technology, Tsudanuma, Japan

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VP4-12. Performance Prediction of IPMSMs Based on Nonlinear Magnetic Reluctance Networks with Newton-Raphson Approach

L. Wang¹, C. Di^{1,2}, J. Zhu¹, X. Bao¹

¹School of Electrical Engineering and Automation, Hefei University Of Technology, Hefei, China, ²Anhui Wannan Xinwei Motor Co., Ltd., Xuancheng, Anhui, China

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VP4-13. Impact of Rotor Saliency on Air-gap Flux Density Distribution and Subsequent Electromagnetic Stress of Permanent Magnet Motors

S. Sengupta, B. G. Fedrnanides

Electrical Engineering, Indian Institute of Technology Bombay, Mumbai, Maharashtra, India

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VP4-14. Cogging Torque Suppression in PMSMs via Closed-Slot Bridge Optimization Using Nonlinear Magnetic Circuit Method

G. Fan¹, L. Wang¹, T. Zhu^{1,2}, X. Bao¹

¹School of Electrical Engineering and Automation, Hefei University of Technology, Hefei, China, ²Anhui Province's Key Laboratory of Large-scale Submersible Pump and Accoutrements, Anhui, Hefei, China

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VP4-15. Topology Design and Torque Analysis of PMSM with Coordinated Reluctance and Permanent Magnet Axis Shifting

S. Zhang, F. Cao, F. Liu, D. Zhai, J. Jiao

College of Marine Electrical Engineering, Dalian Maritime University, Dalian, China

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VP4-16. Vibration Suppression of Permanent Magnet Synchronous Motors Using Segmented Staggered Pole Shifting and Skewing

K. Liu¹, J. Gao¹, L. Dai², S. Gao¹, S. Huang¹

¹College of Electrical and Information Engineering, Hunan University, Changsha, China, ²Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

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VP4-17. Surrogate-Assisted Genetic Algorithm Optimization of Single Stator Double Rotor Axial Flux Permanent Magnet Synchronous Machines under No-Load Condition

A. Othman¹, M. Ahmad¹, A. Azmi¹, D. Ishak², C. Tan^{3,4}, Q. Ang¹, C. Liew⁵, T. Tiang¹

¹Universiti Malaysia Perlis, Arau, Perlis, Malaysia, ²Prince Mohammad Bin Fahd University, Dhahran, Saudi Arabia, ³Tunku Abdul Rahman University of Management and Technology, Tanjung Bungah, Malaysia, ⁴Kuala Lumpur University of Science and Technology, Kajang, Malaysia, ⁵Low Carbon Lab, Georgetown, Malaysia

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VP4-18. Transformation calculation between the inner- and outer rotor permanent magnet motor

Y. Du¹, Y. Huang², B. Guo³, Y. Wu², Y. Li¹, R. Wang¹, Y. Wu¹, S. Ding¹

¹School of Electrical Engineering and Automation, Anhui University, Hefei, China, ²School of Electrical Engineering, Southeast University, Nanjing, China, ³School of Electrical and Automation Engineering, Nanjing Normal University, Nanjing, China

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VP4-19. Comparative Study of Dual-Flux-Reversal Permanent Magnet Machines With and Without Tooth-Tips

L. Zhang¹, X. Liu¹, X. Feng²

¹Ningbo Institute of Technology, Beihang University, Ningbo, Zhejiang, China, ²Frunning-ker (Ningbo) Intelligent Technology Co., Ltd., Ningbo, Zhejiang, China

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VP4-20. Magnetic Field Prediction of SPM Using a Hybrid Model Based on Scalar Potential-based Subdomain and Magnetic Network

A. Niu, J. Yang, Z. Wu

Zhejiang University, HangZhou, China

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VP4-21. Comparative Study on Material Cost and Motor Characteristics Considering Magnet Segmentation Direction in AFPM Motors

W. Yim^{1,2}, S. Hahn¹

¹Department of Electrical and Computer Engineering, Seoul National University, Seoul, Seoul, Korea (the Republic of), ²LG Electronics Inc., Seoul, Korea (the Republic of)

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VP4-22. Influence of Parasitic Air Gaps on Vibration and Noise of Tooth-Yoke Splicing Electric Machines

T. Chen¹, Z. Li¹, L. Zeng², R. Pei^{1,2}

¹Department of Electric Engineering, Shenyang University of Technology, Shenyang, China, ²Suzhou Inn-Mag New Energy Ltd, Suzhou, China

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VP4-23. Smooth Sensorless Startup in PMSM Drives Through Cogging Torque Mitigation

W. Zhang¹, S. Gao², M. Lyu², J. Gao²

¹Changsha University, Changsha, Hunan Province, China, ²Hunan University, Changsha, Hunan Province, China

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VP4-24. Loss-Minimizing Torque Ripple Suppression in PMSMs Based on Harmonic Torque Compensation and Variable Weighting Coefficient

S. Gao¹, J. Gao¹, Q. Liu¹, K. Liu¹, L. Dai², S. Huang¹

¹Hunan University, Changsha, Hunan Province, China, ²The Hong Kong Polytechnic University, Hong Kong, China

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VP4-25. Equivalent Magnetic Network Modeling and Performance Analysis of Electric motors Considering Multi-physics Magnetic Characteristics of Silicon Steel

T. Qiu, Z. Li, L. Zeng, R. Pei

Department of Electric Engineering, Shenyang University of Technology, Shenyang, Liaoning, China

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VP4-26. Pulse Injection Position Sensorless Drive for Hybrid Vernier Reluctance Machine with Zero-sequence Current

J. Jiang¹, X. Li¹, K. Zhou¹, S. Niu², W. Wang³

¹School of Automation, Wuhan University of Technology, Wuhan, Hubei, China, ²Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, Hong Kong, Hong Kong, ³Advanced Engineering College, Greater Bay University, Dongguan, Guangdong, China

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VP4-27. Magnetic Properties Measurement and Analysis of Ultra-thin Grain-oriented Silicon Steel Considering Biaxial Stress Loads

Y. Dou⁴, X. Zhu^{1,2}, Y. Li¹, J. Zhu³

¹Hebei University of Technology, Tianjin, China, ²State Grid Zhangjiakou Power Supply Company, Zhangjiakou, China, ³University of Sydney, Sydney, New South Wales, Australia, ⁴Zhejiang University, Hangzhou, China

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VP4-28. Predefined-Time Estimation and Fixed-Time Control for Permanent Magnet Flux Linkage Variation Compensation in Permanent Magnet Synchronous Motor

X. Wang¹, Y. Gao¹, B. S. Wang²

¹Wuhan University, Wuhan, China, ²Kunming University of Science and Technology, Kunming, Yunnan, China

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VP4-29. A Novel Vertical-Axis Synchronous Pulse Injection Sensorless Control Based on Three-Phase Four-Leg Drive for Hybrid-Excited Variable Reluctance Machine

J. Jiang¹, X. Li¹, K. Zhou¹, S. Niu², W. Wang³

¹School of Automation, Wuhan University of Technology, Wuhan, Hubei, China, ²Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, JiuLong, Hong Kong, China, ³Advanced Engineering College, Greater Bay University, Dongguan, Guangdong, China

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VP4-30. Investigation of Post-Demagnetization Back-EMF in Modular Multi-Three-Phase Permanent Magnet Synchronous Machines

H. Zhan, W. Liu, Z. Lyu, J. Song, S. Niu, K. Chau

EEE, The Hong Kong Polytechnic University, Hong Kong, Hong Kong

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SESSION VP5: SIMULATION AND DESIGN OPTIMIZATION OF ELECTROMAGNETIC SYSTEMS IVChair(s): Z. Ren, *Sorbonne University, Paris, France*

Wednesday, May 6, 2026

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VP5-01. Electro Thermal Co Simulation and Experimental Validation of a High Power Density Three Phase InverterJ. Zhang*Nanjing University of Aeronautics and Astronautics, Nanjing, China*[View Digest Text](#)**VP5-02. Optimized Efficiency Design of Permanent Magnet Brushless Motors for Drones using Particle Swarm Optimization Algorithm**C. Hsu*Department of Mechanical Engineering, National Yunlin University of Science and Technology, Douliu City, Yunlin County, Taiwan*[View Digest Text](#)**VP5-04. Hierarchical-Reinforcement-Learning-Accelerated Long Horizon Model Predictive Control for DTP-PMSMs**J. Chen^{2,1}, S. Chang^{2,1}, Y. Wu^{2,1}, Z. Zhang^{2,1}*¹School of Electrical and Information Engineering, Tianjin University, Tianjin, China, ²State Key Laboratory of Smart Power Distribution Equipment and System, Tianjin University, Tianjin, China*[View Digest Text](#)**VP5-05. Multi-Physics Coupling Optimization of Variable-Speed Wind Turbine Transformers**H. Yang, J. Gao, L. Zhou, Z. Cheng, Y. Zhao, S. Huang*Hunan University, Changsha, China*[View Digest Text](#)**VP5-06. Multi-Objective Structural Optimization of PMSM Based on TD3 Algorithm with Adaptive Reward Weighting**H. Wang, S. Liu, S. Jiang*Nanjing Normal University, Nanjing, China*[View Digest Text](#)**VP5-07. Early Stage Short-Circuit Identification Technology for Transformers Based on Leakage Magnetic Field Distribution Characteristics**Z. Yu¹, Y. Geng¹, S. Zhou¹, J. Tian², Y. Li¹, Y. Jing¹*¹School of Electrical Engineering, Shenyang University of Technology, Shenyang, China, ²Liaoning-efacec Electrical Equipment Co., Ltd, Liaoyang, China*[View Digest Text](#)**VP5-08. Rate-Compatible Protograph LDPC Codes with Transfer Learning-Based Decoding for STT-MRAM**J. Dong¹, K. Cai¹, Z. Mei², B. Dai¹*¹Singapore University of Technology and Design, Singapore, Singapore, ²Nanjing University of Science and Technology, Nanjing, Jiangsu, China*[View Digest Text](#)**VP5-09. Winding Thermal Path Analysis Model Based on Additional Thermal Resistance**Y. Liu¹, Y. Dong¹, B. Ma¹, X. Huang², J. Zhang¹*¹Hunan University, Changsha, Hunan, China, ²The Hong Kong Polytechnic University, Hong Kong, Hong Kong*[View Digest Text](#)

VP5-10. Analysis of No-Load Magnetic Field Characteristics in Wound-Rotor Brushless Doubly-Fed Machines Based on a Subdomain Analytical Model

Z. Yu, Q. He, J. Wang, H. Chen, J. Ding, Y. Li

School of Electrical Engineering, Shenyang University of Technology, Shenyang, China

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VP5-11. Gradient-based Topology Optimization of Interior Permanent Magnet Machines

S. Yin¹, Y. Hu¹, Y. Du², Y. Huangfu¹

¹School of Electrical Engineering, Xi'an Jiaotong University, Xi'an, China, ²School of Electrical Engineering and Automation, Anhui University, Hefei, China

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VP5-12. Design of Halbach Cylinders with Dense-Packed Cylindrical Magnets

Z. Jin¹, X. Hu¹, J. Jeong², J. Park³, B. Zhang³, X. Zheng³, Y. Song³, P. Si^{1,3}, C. Choi³

¹College of Materials Science and Chemistry, China Jiliang University, Hangzhou, China, ²Energy & Environment Materials Research Division, Korea Institute of Materials Science, Changwon, Korea (the Republic of), ³Nano Materials Research Division, Korea Institute of Materials and Science, Changwon, Korea (the Republic of)

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VP5-13. A Novel Method for Separating Winding and Core Losses in Power Inductors

M. Wolf

Soreq/TAU, Petah-Tikva, Israel

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VP5-14. Modeling of Multiscale Cross-stacked Grain-Oriented Electrical Steel Sheets Based on Homogenization Technique

H. Zhu¹, Z. Li², Y. Hu¹, S. Yin¹

¹School of Electrical Engineering, Xi'an Jiaotong University, Xi'an, China, ²China Electric Power Research Institute, Beijing, China

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VP5-16. An Adaptive Immersion Cooling and Recovery Architecture for Thermal Management of Lithium-Ion Battery Packs

V. Krishnan, D. U

Electrical Engineering, SIMATS Engineering, Chennai, Tamil Nadu, India

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VP5-18. A Design Method for High Power Density Electrical Machinery Cooling Structure

S. Zhang¹, J. Li¹, P. Li¹, L. Zeng^{1,2}, R. Pei^{1,2}

¹Shenyang University of Technology, Shenyang, China, ²Suzhou Inn-Mag New Energy Ltd, Suzhou, China

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VP5-19. Electromagnetic Characteristics Analysis of Parallel Magnetic Circuit Tubular Permanent Magnet Linear Oscillation Actuator

H. Zhang¹, Z. Shen², Z. Xu², S. Fang²

¹Institute College of Marine and Electrical Engineering, Jiangsu Maritime Institute, Nanjing, Jiangsu, China, ²School of the Electrical Engineering, Southeast University, Nanjing, China

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VP5-20. Multiphysics Design Optimization of an Motor-Planetary Gear Integrated Transmission System

B. Ma¹, J. Liang¹, S. Huang¹, J. Zhang¹, S. Wang², G. Lei³, J. Zhu⁴

¹Hunan University, ChangSha, China, ²Beijing Institute of Technology, Beijing, China, ³University of Technology Sydney, Sydney, New South Wales, Australia, ⁴The University of Sydney, Sydney, New South Wales, Australia

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VP5-21. Research on Reducing Torque Ripple in Wound-Rotator Brushless Double-Fed Motor

Z. Yu, H. Chen, J. Yang, J. Wang, Q. He

School of Electrical Engineering, Shenyang University of Technology, Shenyang, China

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VP5-22. Multi-Operating-Condition Efficiency Optimization of Permanent Magnet Motors Based on Surrogate Models

W. Zhang², Y. Liu¹, J. Gao¹

¹*Information Engineering (CEIE), Hunan University, Changsha, Hunan, China*, ²*Changsha University, Changsha, Hunan, China*

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VP5-23. A Multi-domain Fourier Neural Operator Learning Method for Electromagnetic Analysis

B. Wan, G. Lei, J. Zhu, Y. Guo

School of Electrical and Data Engineering, University of Technology Sydney, Ultimo, New South Wales, Australia

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VP5-24. A Novel Permanent Magnet Machine with Hollow Conductors for Aerospace Propulsion

K. Du, J. Yang, S. Huang, S. Huang

Hunan University, Changsha, Hunan, China

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VP5-25. Adaptive Harmonic Suppression for Dual Three-Phase PMSMs via Error-Mapping Radial Basis Function Neural Network

Z. Wang^{2,1}, S. Chang^{2,1}, Y. Wu^{2,1}, Z. Zhang^{2,1}

¹*School of Electrical and Information Engineering, Tianjin University, Tianjin, China*, ²*State Key Laboratory of Smart Power Distribution Equipment and System, Tianjin University, Tianjin, China*

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VP5-26. Application of Grain-Oriented Silicon Steel Hybrid Stator Cores in High-Power-Density Fractional-Slot Permanent Magnet Motors

Z. Yu, Y. Cheng, J. Wang, Z. Zhang, Q. He, J. Ding, Y. Li

School of Electrical Engineering, Shenyang University of Technology, Shenyang, China

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VP5-27. A Local Hybrid Method with Middle-Layer Airgap Fourier Model and FEM for Electromagnetic Performance Computation of PM Machines

W. Gao, Z. He, F. Xiao, Y. Du, X. Zhu

Jiangsu University, Zhenjiang, China

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VP5-28. Analysis and Suppression of Winding Magnetic Field Harmonics in Dual-Three-Phase PMSM under Missing-Set Operation

Y. Zhao, J. Gao, Z. Cheng, Z. He, K. Liu, S. Huang

College of Electrical and Information Engineering, Hunan University, Changsha, Hunan, China

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VP5-29. Multiphysics Topology Optimization for PMSM Rotors Considering Partial Magnetic Saturation

Z. Cheng, J. Gao, Y. Zhao, Z. He, K. Liu, S. Huang

Hunan University, Changsha, Hunan, China

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VP5-30. Universal Magnetic Loss Model of Different Magnetostrictive Material Considering High Frequency and Variable TemperatureP. Guo¹, C. Bai², Q. Wang³¹Shanxi University, Taiyuan, ShanXi, China, ²Nano-Opto-Electronics Research Institute Limited Company, Taiyuan, ShanXi, China, ³North China University of Science and Technology, Tangshan, Hebei, China[View Digest Text](#)**VP5-31. Complex Frequency-Domain Finite Element Analysis for Magneto-Mechanical Coupling in Amorphous Wound Cores**S. Gao¹, R. Li¹, X. Zhao¹, L. Liu²¹Department of Electrical Engineering, North China Electric Power University, Baoding, China, ²Hebei Provincial Key Laboratory of Electromagnetic and Structural Performance of Power Transmission and Transformation Equipment, Baoding, China[View Digest Text](#)**VP5-32. Analysis and Design of High-Order Self-Oscillating Wireless Power Transfer Systems for Extended Transfer Distance**Y. Gu^{1,2}, X. Shen^{1,2}, J. Bao^{1,2}, Z. Zhang^{1,2}¹State Key Laboratory of Smart Power Distribution Equipment and System, Tianjin University, Tianjin, China, ²School of Electrical and Information Engineering, Tianjin University, Tianjin, China[View Digest Text](#)**VP5-33. Analytical Modeling of High-Temperature Superconducting Single-Sided Linear Induction Motors for Rail Transportation Applications**

W. Qin

Electrical Engineering, Beijing Jiaotong University, Beijing, China

[View Digest Text](#)**VP5-34. Multiphysics Simulation-Based Active Noise Reduction for Transformer Core Vibration via Reverse Frequency Coupling**N. Zhang¹, Y. Wang¹, B. Li¹, Y. Liu¹, S. Yang¹, S. Wang¹, S. Ning²¹School of Electrical Engineering, Xi'an Jiaotong University, Xi'an, Shaanxi, China, ²School of Electronic Information and Artificial Intelligence, Shaanxi University of Science and Technology, Xi'an, Shaanxi, China[View Digest Text](#)**SESSION VP6: SOFT MAGNETIC MATERIALS AND DEVICES**

Co-Chair(s): K. Richter, Faculty of electronics and informatics, Technical University of Kosice, Kosice, Slovakia and S. Kobayashi, Materials Science and Engineering, Iwate University, Morioka, Japan

Wednesday, May 6, 2026

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Conference Resource Center (On-Demand)

VP6-01. Analysis of Magnetic Domain Transition for Magnetostrictive Co-Nb-Zr thin film strips with inclined uniaxial easy-axis

T. Nakai

Finemechanics, Tohoku University, Sendai, Miyagi, Japan

[View Digest Text](#)**VP6-02. A PCB-based Magnetic Sensor with Adjustable Window Area for Alternating Magnetic Property Measurement**G. Zhou¹, Y. Li¹, J. Yin¹, M. Yang², S. Yue¹, Z. Dong¹¹State Key Laboratory of Intelligent Power Distribution Equipment and System, Hebei University of Technology, Tianjin, China,²State Key Laboratory of Intelligent Green Vehicle and Mobility, Tsinghua University, Beijing, China[View Digest Text](#)

VP6-03. Multiphysics Optimization of High-Speed Amorphous Motors Considering Temperature-Stress Coupling Effects Based on Analytical Modeling

X. Lu¹, L. Zeng², R. Pei^{1,2}

¹Electrical Engineering Department, Shenyang University of Technology, Shenyang, Liaoning, China, ²Suzhou Inn-Mag New Energy Ltd, Suzhou, Jiangsu, China

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VP6-04. Research on Performance Analysis of Hybrid Laminated Cores Composed of Amorphous Alloy and Ultra-thin Silicon Steel Sheets

J. Feng¹, X. Lu¹, Z. Li¹, R. Pei^{1,2}, L. Zeng²

¹Shenyang University of Technology, Chao yang, Liao Ning , China, ²Suzhou Inn-Mag New Energy Ltd, Suzhou, China

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VP6-05. Research on Magnetic Property Measurement of Soft Magnetic Materials Considering Uneven Magnetic Field Distribution

Z. Yu, Z. Zhang, J. Wang, Y. Cheng, Q. He, Y. Li, J. Ding

School of Electrical Engineering, Shenyang University of Technology, Shenyang, China

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VP6-08. Principal Component Analysis of First-Order Reversal Curve Diagrams for Thermally Aged Fe-Cu Alloys

S. Kobayashi

Materials Science and Engineering, Iwate University, Morioka, Japan

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VP6-09. Analysis and Calculation of Magnetic Properties of Soft Magnetic Composites Considering Temperature Effect

Y. Li¹, B. Yang¹, R. Pei^{1,2}, L. Zeng^{1,2}

¹Shenyang University of Technology, Shenyang, Liaoning, China, ²Suzhou Inn-Mag New Energy Ltd, Suzhou, Jiangsu, China

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VP6-10. Analysis and Calculation of Magnetostrictive Properties in Thin Electrical Steel Sheets Considering Stress and Frequency Effects

J. Wang, D. Ma, P. Meng, L. Zeng, R. Pei

Shenyang University of Technology, DeZhou, China

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VP6-11. Research on Stress-Magnetic Coupling of Iron-Nickel Alloy in Permanent Magnet Assisted Synchronous Reluctance Motor

X. Liu¹, J. Li¹, Z. Li¹, Y. Li¹, L. Zeng², R. Pei^{1,2}

¹College of Electrical Engineering, Shenyang University of Technology, Shenyang, China, ²Suzhou Inn-Mag New Energy Ltd, Suzhou, China

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VP6-12. Application of Laser-Scribed Grain-Oriented Silicon Steel in Tooth-Yoke Spliced Interior Permanent Magnet Synchronous Motor

J. Dai¹, Z. Li¹, J. Li¹, Y. Li¹, L. Zeng^{1,2}, R. Pei^{1,2}

¹School of Electrical Engineering, Shenyang University of Technology, Shenyang, China, ²Suzhou Inn-Mag New Energy Ltd, Suzhou, China

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VP6-13. Investigation of Magnetic Properties for RE-Doped Non-Grain-Oriented Silicon Steel in Permanent Magnet Synchronous Motors

W. Li^{1,2}, Y. Xue¹, Z. Liu¹, J. Hao⁴, L. Zeng³, R. Pei¹

¹Shenyang University of Technology, Shenyang, China, ²XuChang University, Xuchang, China, ³Suzhou Inn-Mag New Energy Ltd., Suzhou, China, ⁴Inner Mongolia BaoTou Steel Union Co., Ltd., Baotou, China

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VP6-14. Influence of device structure on magnetoelectric coupling in laminate composites of textured Fe-Ga thin sheet and PZT

J. Liu^{1,2}, Z. He^{1,2}, S. Hu^{1,2}, Y. Sha³, L. Chen^{1,2}, L. Zuo³

¹School of Materials Science and Engineering, Shenyang University of Technology, Shenyang, Liaoning, China, ²Shenyang Key Laboratory of Advanced Structural Materials and Applications, Shenyang University of Technology, Shenyang, China, ³Key Laboratory for Anisotropy and Texture of Materials (Ministry of Education), Northeastern University, Shenyang, China

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VP6-15. Average Torque Improvement of Open-End Winding PMSM Drive via Zero-Sequence Component Utilization

Z. Lyu, S. Niu, H. Zhan, L. Dai, H. Yin, W. Liu, K. Chau

The Hong Kong Polytechnic University, Hung Hom, Hong Kong, China

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SESSION VP7: SPECIAL MACHINES II

Co-Chair(s): N. Niguchi, Osaka University, Suita, Japan and J. Asama, Shizuoka University, Shizuoka, Japan

Wednesday, May 6, 2026

08:30 AM-08:30 PM

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VP7-02. A Dual-Stator Synchronous-Vernier Permanent Magnet Machine: Working Principle, Design Methodology, and Performance Evaluation

L. Dai, S. Niu, X. Huang, Z. Lyu, Z. Li, K. Chau

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, Hong Kong

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VP7-03. Non-Contact Measurement of Non-Metallic Scale Thickness on the Back Side of Ferromagnetic Materials Using Electromagnetic Force-Induced Vibration

M. Tohara², K. Okuma¹, Y. Gotoh³

¹Graduate School of Science and Engineering, Oita University, Oita, Oita, Japan, ²Mechanics and Electronics Research Institute Fukuoka Industrial Technology Center, Kitakyushu, Fukuoka, Japan, ³Faculty of Science and Technology, Oita University, Oita, Oita, Japan

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VP7-04. A Multi-Segment Minimum Copper Loss Fault-Tolerance Strategy for Full Torque Range Operation of Dual Star-Delta Windings PMSM Under Open-Phase Fault

S. Zhou, J. Yang, J. Yu, S. Huang, S. Huang

Hunan University, Changsha, China

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VP7-05. Torque Performance Enhancement of a Flux-Switching PM Arc Motor Using a Hybrid Stator Core

X. Lin, S. Fang, Q. Xu, N. Chen

School of Electrical Engineering, Southeast University, Nanjing, Jiangsu, China

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VP7-06. Design and Analysis of a New Heteropolar Series-Parallel Variable Flux Machine with LCF Magnets Playing Different Roles

W. Liu¹, R. Li¹, X. Shu¹, J. Chen¹, Y. Fu^{1,2}, C. Zhang¹

¹Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, Ningbo, Zhejiang, China, ²University of Chinese Academy of Sciences, Beijing, China

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VP7-07. Electromagnetic Performance Analysis of a New PM Flux-modulation Arc Motor With Hybrid PM-array in Outer Stator

N. Chen, S. Fang, X. Lin

School of Electrical Engineering, Southeast University, Nanjing, Jiangsu, China

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VP7-08. Design of an Outer-Rotor PMSM Integrated with Magnetorheological Fluid Brake Using Memory Permanent Magnet Flux Adjustment

L. Qin¹, Y. Zheng², Y. Hu³, Y. Shan², W. Xu³

¹Tongji University, Shanghai, Shanghai, China, ²Wolong Electric Drive Group Co., Ltd, Shaoxing, Zhejiang, China, ³Southeast University, Nanjing, Jiangsu, China

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VP7-09. Investigation of Variable Impedance PM Vernier Machine with H-Type Split-Tooth for High Reliability

R. Wang¹, K. Ding¹, D. Li², Y. Li¹, Y. Du¹, S. Ding¹, J. Hang¹

¹Anhui University, Anhui Province, China, ²Huazhong University of Science and Technology, Wuhan, China

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VP7-10. Rotor Temperature Prediction Method for PM Machines Based on SVR Model Parameter Updating under Limited Data Availability

R. Wang, Z. Zou, J. Hang, Y. Du, Y. Li, S. Ding

Anhui University, Hefei, Anhui, China

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VP7-11. Analysis and Comparison of Modular Switched Reluctance Motors with Slot-Opening PMs

Y. Du, S. Liu, Z. He, F. Xiao

Jiangsu University, Zhenjiang, China

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VP7-12. Axial-Field Switched-Reluctance Machine: Hybrid Analytical Modeling and Inductance Measurements

I. Belmahi, S. Asfirane, G. Barakat, F. Chabour, Y. Amara

GREAH, Université Le Havre Normandie, Le Havre, Seine-Maritime, France

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VP7-13. Design and Analysis of a Novel Consequent-Pole Variable Flux Machine

Y. Li, X. Wang, R. Wang, Y. Du, S. Ding

School of Electrical Engineering and Automation, Anhui University, Hefei, Anhui, China

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VP7-14. A Flux-guiding Type Variable Flux Machine with Multi-layer Arc-shaped Magnetic Barriers

Y. Li, Z. Yang, Y. Du, R. Wang, S. Ding

School of Electrical Engineering and Automation, Anhui University, Hefei, Anhui, China

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VP7-15. Electromagnetic Vibration Analysis and Suppression for a Double Rotor Permanent Magnet Machine based on Introduction of Electromagnetic Force Aliasing EffectX. Liu, Z. Xiang, C. Chen*School of Electrical and Information Engineering, Jiangsu University, Zhenjiang, China*[View Digest Text](#)**VP7-16. Prediction-Error-Adaptive Deadbeat Predictive Current Control for Variable Flux Memory Machines under Uncertain Magnetization States**

J. Zhang, W. Liu, C. Zhang, J. Chen

Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, Ningbo, China[View Digest Text](#)**VP7-17. Hybrid Vector Magnetic Network Model of Flux-Switching Permanent Magnet Motor Based on Magductance Principle**J. Wang, X. Chen, X. Zhao, S. Cao, K. Xia, Q. Yuan*University of Shanghai for Science and Technology, Shanghai, China*[View Digest Text](#)**VP7-18. Analysis of Cogging Torque in Permanent Magnet Vernier Motors with Eccentric Fault Based on Magnetic Field Modulation Theory**L. Liu, D. Jin, J. Hang, S. Ding, Y. Li, R. Wang*Anhui University, Hefei, China*[View Digest Text](#)**VP7-19. Design and Experimental Comparison of IPMSM Rotors for Personal Mobility Traction Applications**J. Seo^{1,2}, K. Lee¹, J. Choi², S. Lee¹¹Purpose Built Mobility Group, Korea Institute of Industrial Technology, Gwangju, Korea (the Republic of), ²Department of Electrical Engineering, Chungnam National University, Daejeon, Korea (the Republic of)[View Digest Text](#)**SESSION VP8: STRUCTURE, DYNAMICS, AND FUNCTIONALITY IN MAGNETIC MATERIALS**Co-Chair(s): N. Liedienov, *State Key Laboratory of High Pressure and Superhard Materials, Jilin University, Changchun, China* and K. Cai, *School of Physics, Huazhong University of Science and Technology, Wuhan, China*

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VP8-04. A Vector Magnetic Property Measurement Sensor Considering Air Flux EliminationG. Zhou¹, Y. Li¹, J. Yin¹, S. Yue¹, M. Yang², J. Zhou¹¹Key Laboratory of Reliability and Intelligence of Electrical Equipment, Hebei University of Technology, Tianjin, China, ²State Key Laboratory of Intelligent Green Vehicle and Mobility, Tsinghua University, Beijing, China[View Digest Text](#)**VP8-05. A Novel Transcranial Magnetic Stimulation Coil with Bistable Compliant Mechanism Windings for Field Focality Reconfiguration**N. Seliger, V. Pichler, S. Hibler

Faculty of Engineering, Technical University of Applied Sciences Rosenheim, Rosenheim, Germany

[View Digest Text](#)**VP8-06. Facile Synthesis of Cubic Iron Nanoparticles for High-Performance Magnetorheological Fluid: Improving Rheology and Stability**R. Gao^{1,2}, W. Han^{1,2}¹School of Energy and Power Engineering, Nanjing University of Science and Technology, Nanjing, Jiangsu, China, ²National Key Laboratory of Complex Multibody System Dynamic, Nanjing University of Science and Technology, Nanjing, Jiangsu, China[View Digest Text](#)**VP8-08. Room-temperature Ferromagnetism and Magnetocaloric effect in Intermetallic compound TbNi_{1.5}Fe_{0.5}: Bulk magnetization and Neutron diffraction study**M. M. Prusty¹, K. Tejaswi¹, A. Chelvane², S. Rayaprol³, A. Morozkin⁴, R. Nirmala¹¹Physics, Indian Institute of Technology Madras, Chennai, Tamilnadu, India, ²Defence Metallurgical Research Laboratory, Hyderabad, India, ³UGC-DAE Consortium for Scientific Research, Mumbai, India, ⁴Chemistry, Moscow Lomonosov State University, Moscow, Russian Federation[View Digest Text](#)**VP8-09. Magnetic Properties of MnBi and MnBi/NdFeB Powders/Magnets Prepared by Gas-atomization, Jet-milling, and Thermal Compaction**P. Si^{2,1}, Y. Song¹, J. Park¹, X. Zheng¹, B. Zhang¹, C. Choi¹, Z. Jin², X. Hu², Q. Wu²¹Nano Materials Research Division, Korea Institute of Materials Science, Changwon, Gyeongsangnam-do, Korea (the Republic of), ²College of Materials Science and Chemistry, China Jiliang University, Hangzhou, China[View Digest Text](#)**VP8-10. Strategic Substitutions in Fe₂P-Based Alloys: Tuning Structural and Magnetic Properties for High-Performance Rare-Earth-Free Permanent Magnets**D. I. Anyfantis, A. Sigalos, E. Dimeli, D. Niarchos

AMEN New Technologies, Athens, Greece

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Beihang University, Beijing, China

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[Y. Dai](#)^{1,2}, [W. Han](#)^{1,2}

¹Nanjing University of Science and Technology, Nanjing, China, ²National Key Laboratory of Complex Multibody Systems Dynamics, Nanjing University of Science and Technology, Nanjing, Jiangsu, China

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VP8-16. Magnetic Vortex Nanodisk Arrays as Physical Unclonable Functions

[R. Gandhe](#)², [I. Roybal](#)², [S. Kulkarni](#)¹

¹Independent researcher, Maharashtra, India, ²University of Texas at Austin, Austin, Texas, United States

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[M. A. Bally](#)¹, [M. Billah](#)², [K. Hossain](#)³, [F. Khan](#)²

¹Physics, Government Shaheed Suhrawardy College, Dhaka, Dhaka, Bangladesh, ²Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh, ³Physics, University of Dhaka, Dhaka, Bangladesh

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[D. Das](#)¹, [S. K. Bandekar](#)¹, [A. Ganguly](#)², [D. Polley](#)³

¹Department of Electrical & Electronics Engineering, Birla Institute of Technology and Science, Goa Campus, Vasco da Gama, Goa, India, ²Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India, ³Department of Physics and Nanotechnology, Birla Institute of Technology and Science, Hyderabad Campus, Jawahar Nagar, Telengana, India

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¹Electrical and Computer Engineering, National University of Singapore, Singapore, Singapore, ²National University of Singapore (Chong Qing) Research Institute, Chongqing, China, ³School of Information Science and Technology, ShanghaiTech University, Shanghai, China

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[H. He](#), [S. Wang](#), [Y. Fu](#), [H. Li](#), [Z. Huang](#), [S. Jiang](#)

South China University of Technology, Guangzhou, China

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[J. Chen](#), [Z. Jin](#), [C. Zhang](#), [Z. Han](#)

Chinese Academy of Sciences, Beijing, China

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[J. Chen](#)^{1,2,3}, [Z. Jin](#)^{1,2}, [Q. Jiao](#)^{1,2}, [C. Zhang](#)^{1,2}

¹State Key Laboratory of Transducer Technology, Aerospace Information Research Institute, Chinese Academy of Sciences, Beijing, China, ²School of Electronic, Electrical and Communication Engineering, University of Chinese Academy of Sciences, Beijing, China, ³College of Materials Sciences and Opto-Electronic Technology, University of Chinese Academy of Sciences, Beijing, China

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C. Kishandev¹, [J. Joy](#)¹, J. Korah¹, E. Markose¹, N. C S²

¹Department of Electrical Engineering, National Institute of Technology Calicut, Calicut, India, ²Department of Electronics and Communication Engineering, National Institute of Technology Calicut, Calicut, India

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[N. A. de Oliveira](#)

Instituto de Física, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Rio de Janeiro, Brazil

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[W. Xie](#)

School of Marine Engineering Equipment, Zhejiang Ocean University, Zhoushan, China

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[T. G. Jales](#)², S. M. Martins Jr³, A. L. Dantas^{1,2}, A. S. Carriço⁴

¹Department of Science and Technology, State University of Rio Grande do Norte, Natal, RN, Brazil, ²Department of Physics, State University of Rio Grande do Norte, Natal, Brazil, ³Department of Physics, State University of Maranhão, São Luiz, Brazil,

⁴Department of Physics, Federal University of Rio Grande do Norte, Natal, Brazil

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[Y. Dou](#)¹, Z. Li², J. Li², Y. Li², J. Zhu³

¹Zhejiang University, Haining, Zhejiang, China, ²Hebei University of Technology, Tianjin, Tianjin, China, ³The University of Sydney, Sydney, New South Wales, Australia

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[L. Ren](#)¹, L. Liu², K. Teo¹

¹Department of Electrical & Computer Engineering, National University of Singapore, Singapore, Singapore, ²School of Physics and Astronomy, Shanghai Jiao Tong University, Shanghai, China

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[R. Swami](#)¹, D. Ram^{1,2}, A. C V³, V. Kanchana³, Z. Hossain¹

¹Physics, Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh, India, ²Physics, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bangalore, India, ³Physics, Indian Institute of Technology Hyderabad, Hyderabad, Telangana, India

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[A. Talantsev](#), M. Bakhmetiev, S. Kashin, R. Morgunov

Spintronics, Federal Research Center of Chemical Physics and Medicinal Chemistry of Russian Academy of Science, Chernogolovka, Moscow, Russian Federation

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[E. Dimeli](#)¹, D. I. Anyfantis¹, A. Sigalos¹, D. Niarchos^{1,2}

¹AMEN New Technologies, Agia Paraskevi, Greece, ²Institute of Nanoscience and Nanotechnology, National Centre for Scientific Research “Demokritos”, Athens, Greece

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VP8-33. Antiferromagnetic Neel Vector Readout in Co/MgO/FeMn/Co Tunnel Junction For Artificial Synapse Application: An Ab-Initio DFT-NEGF Study

P. Dutta¹, G. P. Carman², T. Pramanik³, S. Bhanja¹

¹Electrical Engineering, University of South Florida, Tampa, Florida, United States, ²Mechanical and Aerospace Engineering, University of California, Los Angeles, Los Angeles, California, United States, ³Electronics and Communication, IIT Roorkee, Haridwar, Uttarakhand, India

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VP8-34. Impact of Cr Insertion Layer on Spin Transport in Engineered Co₂FeAl Based Spin Orbit Torque System.

R. Mondal¹, A. Halder², C. Murapaka¹

¹Materials Science and Metallurgical Engineering, Indian Institute of Technology Hyderabad, Sangareddy, Telangana, India,

²Department of Physics, Indian Institute of Technology Hyderabad, Sangareddy, Telangana, India

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VP8-35. Extremely Long Spin Wave Propagation in Yttrium Iron Garnet with Double-Sided Periodic Metallic Patterns

D. Shabaev^{1,2}, T. Watanabe³, T. Koguchi^{1,2}, H. Miyashita^{1,2}, E. Negishi³, K. Ishiyama¹, T. Goto¹

¹Research Institute of Electrical Communication, Tohoku University, Sendai, Japan, ²Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan, ³Shin-Etsu Chemical, Annaka, Gunma, Japan

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VP8-37. Energy-Efficient Generative AI with Probabilistic Bits

K. Selcuk, K. Camsari

University of California, Santa Barbara, Santa Barbara, California, United States

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VP8-38. Proximity-Induced Spin-Orbit Torque in Graphene on CrSBr Monolayer

M. Rassekh¹, M. Gmitra^{1,2}

¹Institute of Physics, Pavol Jozef Šafárik University in Košice, Košice, Slovakia, ²Institute of Experimental Physics, Slovak Academy of Sciences, Košice, Košice, Slovakia

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VP8-39. Generation, characterization, and directed self-assembly of binary and medium-entropy magnetic nanoparticles with tunable composition

H. Jalili^{2,4}, M. Sedrpooshan^{2,1,3}, S. Emile Herz⁴, P. Ternero^{2,1}, P. Maltoni^{5,6}, C. Bulbucan⁷, A. Vishina⁸, D. Peddis^{5,6}, M. E Messing^{2,1,3}, R. Westerström^{2,4}

¹Physics, Solid State Physics, Lund University, Lund, Sweden, ²NanoLund, Lund University, Lund, Sweden, ³Microtechnology and Nanoscience, Chalmers University of Technology, Gothenburg, Sweden, ⁴Physics, Synchrotron Radiation Research, Lund University, Lund, Sweden, ⁵Institute of Structure of Matter, National Research Council (CNR), Rome, Italy, ⁶Chemistry and Industrial Chemistry, University of Genova, Genova, Italy, ⁷MAX IV Laboratory, Lund University, Lund, Sweden, ⁸Physics and Astronomy, Uppsala University, Uppsala, Sweden

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VP8-40. Modulation of Curie Temperature and Anomalous Hall Angle via Te-composition in Cr_xTe_y

A. K. Pandey, S. Pati, N. Kumar, S. Chaudhary

Department of Physics, Indian Institute of Technology Delhi, New Delhi, Delhi, India

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VP8-41. Coexistence of Large Anomalous and Topological Hall Effect in an Epitaxial Ferromagnetic Weyl Nodal-Line Fe₅Si₃

S. Pati¹, S. S. Pradhan², A. K. Pandey¹, V. Kanchana², S. Chaudhary¹

¹Physics, IIT Delhi, New Delhi, Delhi, India, ²physics, IIT Hyderabad, Hyderabad, Telangana, India

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VP8-42. Spin wave dynamics of reconfigurable magnonic crystal

A. K. Dhiman^{1,2}, N. Lesniewski³, R. Gieniusz², J. Kisielewski², P. Mazalski², Z. Kurant², P. Graczyk¹, M. Matczak¹, M. Krawczyk³, A. Lynnyk⁴, A. Maziewski², P. Gruszecki³

¹Institute of Molecular Physics, Polish Academy of Sciences, Poznan, Poland, ²Poznan, Greater Poland, Poland, ²Department of Physics of Magnetism, University of Bialystok, Bialystok, Podlaskie, Poland, ³Faculty of Physics and Astronomy, Adam Mickiewicz University, Poznan, Wielkopolski, Poland, ⁴Institute of Physics, Polish Academy of Sciences, Warsaw, Poland

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VP8-43. Spin Pumping in YIG/ $W_{90}Ti_{10}$ Bilayers

M. Hachem, Z. Harajli, s. Isber, M. Haidar

Physics, American University of Beirut, Beirut, Lebanon

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VP8-44. Synchronization of propagating spin waves in spin Hall oscillators

M. Haidar

Physics, American University of Beirut, Beirut, Lebanon

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G. Wei¹, Y. Zheng², J. Soh², C. O'Mathuna^{1,3}, R. Sai¹

¹Tyndall National Institute, Cork, Ireland, ²Applied Materials Inc., Santa Clara, California, United States, ³School of Engineering, University College Cork, Cork, Ireland

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SESSION VP9: SURFACE AND INTERIOR PERMANENT MAGNET MACHINES

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L. Dai, S. Niu, X. Huang, Z. Lyu, H. Yin, K. Chau

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, Hong Kong

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VP9-03. 3D Effects of Rotor Step Skew on Torque Characteristics of Interior Permanent Magnet Synchronous Motors

K. Yamazaki, M. Yashiro

Electrical and Electric Engineering, Chiba Institute of Technology, Tsudanuma, Select State, Japan

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VP9-04. Investigation of Stator Yoke Oil Channel Effects on Electromagnetic, Vibration, and Thermal Behavior of High-Power-Density FSCW Machines

J. Yu¹, J. Yang¹, P. Zhang², S. Huang¹

¹Hunan University, Changsha, China, ²China Aviation Power Machinery Research Institute, Zhuzhou, China

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VP9-05. Design and Analysis of a Novel Distributed Unequal-Pitch Modular Winding for Fault-Tolerant PMSM

S. Zheng¹, M. Jiang², J. Shen²

¹Changzhou Institute of Technology, Changzhou, Jiangsu, China, ²Jiangsu Ocean University, Lianyungang, Jiangsu, China

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VP9-06. Design of N-S-Iron Interleaved Asymmetric Pole Arc Coefficient 24-slot/20-pole CPPM Machine with Rotor Inner Slots

Q. Zhang, J. Wang, Y. Hu, W. Xu

Southeast University, Nanjin, Jiangsu, China

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VP9-08. Effect of Winding Phase-Shifting on Low-Space-Harmonic Design in Six-Phase Permanent-Magnet Synchronous Machine

Z. Yuan¹, Y. Sui¹, P. Zheng¹, L. Cheng², W. Liu¹, Y. Gao¹

¹*Harbin Institute of Technology, Harbin, China*, ²*CRRC Zhuzhou Electric Co., Ltd., Zhuzhou, China*

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VP9-09. Research on Permeance Harmonic Design for a PM Flux-Modulated Motor Utilizing Air-Gap Region Function

J. Ren, X. Zhu, L. Quan, Z. Xiang

School of Electrical and Information Engineering, Jiangsu University, Zhenjiang, China

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VP9-10. Design and Analysis of a Direct-Drive Magnetic Coupling Underwater Thruster Capable of Large Thrust and High Efficiency

W. Wang¹, Z. Xiang¹, E. Ma², X. Wang¹

¹*School of Electrical and Information Engineering, Jiangsu University, Zhenjiang, China*, ²*No. 705 Research Institute, China State Shipbuilding Corporation Limited, Xi An, China*

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VP9-11. Investigation of a New Dual-Layer Asymmetric Series-Magnetic-Circuit Variable Flux Memory Machine

Y. Fu^{1,2}, W. Liu¹, J. Chen¹, R. Li¹, X. Shu¹, C. Zhang¹

¹*Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, Ningbo Institute of Materials Technology and Engineering Chinese Academy of Sciences, Ningbo, Zhejiang, China*, ²*University of Chinese Academy of Sciences, Beijing, China*

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VP9-12. Loss model establishment and multi-dimensional correction of low-speed high-torque PMSM for efficiency optimal control

Z. Wang¹, G. Liu¹, S. Yu¹, Y. Zheng², Q. Xiong³, Z. Zhang⁴

¹*Shenyang University of Technology, Shenyang, China*, ²*Wolong Electric Group Co., Ltd., Shaoxing, China*, ³*Chongqing Dema High-Speed Equipment Engineering Research Institute Co., Ltd, Chongqing, China*, ⁴*Dalian Zhiding Technology Co., Ltd, Dalian, China*

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VP9-14. Flexible Power Sharing in Multi-Three-Phase PMSM via Virtual Current Regulation With Vector Space Decomposition

Z. Lyu¹, A. Chau², H. Zhan¹, L. Dai¹, S. Niu¹

¹*The Hong Kong Polytechnic University, Hung Hom, Hong Kong, China*, ²*City University of Hong Kong, Hong Kong, Hong Kong*

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VP9-15. A Study on an Outer-Rotor Hybrid Motor Considering for High Power Density

Y. Lee¹, H. Kim¹, S. Ko¹, S. Choi², W. Kim²

¹*Department of Next Generation Energy System Convergence, Gachon University, Gyeonggi-do, Korea (the Republic of)*,

²*Department of Electrical Engineering, Gachon University, Seongnam, Korea (the Republic of)*

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 Weiler, M: CT-03, GD-01
 Weinelt, M: ED-06
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 Weltens, D: CT-09
 Wen, H: BH-08
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 Wende, H: CE-06, GF-07
 Werwinski, M: **AE-03**, CE-09, GH-06
 Westerström, R: VP8-39
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 Wiebe, J: **CD-01**
 Wiekhorst, F: EF-02, GS-09, HQ-03, HQ-07
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 Wilhelm, C: EF-01
 Wilhelm, F: GF-07
 Wilke, M: FH-06
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 Wilkinson, T: FG-02
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 Winkler, C: GH-04
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 Winkler, J: GH-04, **GP-03**
 Winkler, R T.: ED-05
 Wintz, S: BF-04
 Wissner, J J.: DH-08
 Wittrock, S: AC-09, BF-04, DH-01
 W Mohamad, W: AT-02, **AT-03**
 Wöckinger, D: CH-10, DT-10
 Wojewoda, O: **AF-10**, CT-10, DH-11, HS-05
 Wolf, D: BC-09
 Wolf, M: **VP5-13**
 Wong, W: GP-15, GP-16
 Woo, D: **CC-06**
 Woodcock, T: GH-04, GP-03, GP-13, **GS-16**
- Woodgate, C: AD-02
 Woodland, L: **DG-11**, EB-05
 Worbs, A: HH-06
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 Wright, A J.: CF-06, DB-02, **EH-11**
 Wright, D: FG-02
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 Wu, C: **DE-02**, FE-09
 Wu, D: EG-03, GF-04
 Wu, D: **ET-02**
 Wu, H: CP-02
 Wu, H: ET-10
 Wu, H: CD-10
 Wu, J: **EQ-16**, FC-03
 Wu, L: **VP4-06**
 Wu, L: BH-08
 Wu, M: **CC-05**
 Wu, P: CG-08
 Wu, Q: VP8-09
 Wu, T: GF-10, GT-09, HG-08
 Wu, T: **BG-07**
 Wu, T: HA-06
 Wu, X: HE-01
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 Wu, Y: VP4-18
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 Wu, Y: VP5-04, VP5-25
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 Wu, Y: **VP3-04**, VP4-18
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- X**
 Xi, W: CG-01
 Xia, C: CQ-09
 Xia, H: CD-10
 Xia, K: VP7-17
 Xia, S: BU-01
 Xiang, Z: DT-01
 Xiang, Z: **VP7-15**, VP9-09, **VP9-10**
 Xiao, C: DC-04
 Xiao, F: VP4-01, VP5-27, VP7-11
 Xie, H: VP8-19
 Xie, R: ES-09
 Xie, W: **VP8-26**
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 Xiong, D: CS-10, DC-04
 Xiong, F: AR-07, BP-10, VP4-10
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- Xu, C: AB-04, **BD-04***
 Xu, C: BU-05, DQ-12
 Xu, D: AQ-01, AQ-10
 Xu, F: VP1-12
 Xu, J: HA-06
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 Xu, Q: VP7-05
 Xu, R: DC-04
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 Xu, W: VP1-01, VP4-09, VP7-08, VP9-06
 Xu, X: AC-10
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 Xu, Y: DC-07
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 Xu, Y: EQ-16, **FC-03**
 Xu, Y: AR-03, EE-05, HP-02
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 Xue, H: **CQ-10**, FE-06
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 Yabukami, S: **DT-12**, ER-06, **HB-04**
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- Yamazaki, K: **VP4-11, VP9-03**
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 Yang, Y: AQ-11
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- Yildiz, E: CG-02, CU-02, HD-02
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 Yoshida, Y: **AC-04**
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 Yu, K: **BP-01, BP-02**, GQ-10
 Yu, S: **DE-08**
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 Yuan, R: **AD-07**, DU-08
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 Zeng, Q: **AT-04**
 Zeng, Z: ET-10
 Zhai, D: VP4-15
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 Zhang, C: CG-04, VP8-22, VP8-23
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 Zhang, C: BH-08
 Zhang, C: VP7-06, VP7-16, VP9-11
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 Zhang, E: HG-05
 Zhang, G: **VP3-06**
 Zhang, H: **BU-05**, DQ-12
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 Zhang, H: AQ-03, AQ-07, CS-10, DE-08
 Zhang, H: **VP5-19**
 Zhang, H: AC-10, DC-04
 Zhang, J: VP5-09, VP5-20
 Zhang, J: AU-13, ET-09
 Zhang, J: **VP7-16**
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Zhang, L: BR-03, DQ-03
 Zhang, L: **VP4-19**
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 Zhang, N: VP5-34
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 Zhang, Q: BH-09
 Zhang, Q: **ET-09**
 Zhang, Q: VP1-01, **VP4-09**, VP9-06
 Zhang, R: BU-01, CU-01
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 Zhang, S: VP3-03, VP3-08, **VP5-18**
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 Zhang, T: EG-03, **GF-04**
 Zhang, T: **CS-02**, **EQ-15**
 Zhang, W: **VP4-23**, VP5-22
 Zhang, W: AR-03
 Zhang, X: VP1-12
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 Zhang, X: FC-03
 Zhang, X: AC-07, DS-10, ET-10
 Zhang, X: **VP8-12**
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 Zhang, Y: **VP1-17**
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 Zhang, Y: **VP1-01**
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 Zhang, Z: AR-02, AR-05, AR-15, CQ-11, VP3-02
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 Zhang, Z: AR-02, AR-05, AR-15, CQ-11, **VP3-02**
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 Zhao, B: CC-02, HC-03
 Zhao, F: AR-04, **BH-09**, CP-09, CP-11
 Zhao, J: VP1-03
 Zhao, K: CP-07, DE-05
 Zhao, L: **AF-04**
 Zhao, R: **EE-05**, **HP-02**
 Zhao, T: GC-05
 Zhao, W S.: AC-10
 Zhao, W: AQ-12, GQ-08
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 Zhao, X: VP7-17
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 Zhao, X: BP-16, DP-01
 Zhao, Y: CG-01
 Zhao, Y: VP1-08, VP5-05, **VP5-28**, VP5-29
 Zhao, Z: DQ-06
 Zheng, H: BS-14, VP8-19
 Zheng, J: DQ-04
 Zheng, P: BQ-13, GE-10, GE-11, VP9-08
 Zheng, S: **VP9-05**
 Zheng, T: DB-02, EH-11
 Zheng, X: DC-04
 Zheng, X: **GP-05**, VP5-12, **VP8-09**
 Zheng, X: **EP-03**
 Zheng, X: **BG-08**
 Zheng, Y: VP7-08, VP9-12
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 Zhi, C: CP-09
 Zhong, F: **GF-05**
 Zhong, L: **VP3-07**
 Zhou, G: CH-07, **VP6-02**, VP8-04
 Zhou, J: **CH-07**, DR-12, VP8-04
 Zhou, K: AD-03
 Zhou, K: VP4-26, VP4-29
 Zhou, L: **VP5-05**
 Zhou, S: **VP7-04**
 Zhou, S: CE-10
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 Zhou, S: VP5-07
 Zhou, Y: BU-09, DU-04
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 Zhou, Z: VP1-14
 Zhou, Z: CG-01
 Zhu, D: DC-04
 Zhu, H: **VP5-14**
 Zhu, J: **EE-02**
 Zhu, J: BG-02, BU-03
 Zhu, J: AQ-13, DQ-02, **DQ-04**, VP4-27, VP5-20, VP5-23, VP8-28
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 Zhu, K: DQ-11
 Zhu, L: **GB-03**
 Zhu, M: **GP-02**
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 Zhu, T: AE-01, **HC-05**
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 Zhu, W: **AU-02**
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 Zhu, X: VP4-01, VP5-27, VP9-09
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 Zhu, Y: **AQ-13**
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 Zhu, Z: VP1-14
 Zhu, Z: **DC-02**
 Zhukov, A: BE-02, DR-04, **EG-10**, **GG-07**
 Zhukov, E: HA-09
 Zhukova, V: BE-02, **DR-04**, EG-10, GG-07
 Ziefuss, A: **BE-06**
 Zimmer, J: CA-02
 Zmirli, M: EP-13
 Zorko, A: AH-11
 Zou, J: AR-03, EE-05, HP-02
 Zou, T: BH-08, VP3-11
 Zou, Z: **VP7-10**
 Zuo, L: VP6-14
 Zuzek, K: BE-04
 Zuzek Rozman, K: BE-08