

AtC-AtG CONFERENCE PROGRAM

27 September 2023

Opening session

UTC	CEST	JST	PDT	EDT
-00:15	01:45	08:45	16:45	19:45

Session 1

UTC	CEST	JST	PDT	EDT
00:00	02:00	09:00	17:00	20:00

00:00 *Plenary speaker:*
Shutaro KARUBE *Spintronics on Altermagnetism* Japan

00:45	Yankun LIU	<i>Out-of-plane spins induced unconventional perpendicular magnetization switching behaviour</i>	Singapore
01:00	Hiroki MATSUMOTO	<i>Non-local detection of phonon-magnon coupling via acoustoelectric current</i>	Japan
01:15	Dongsheng YANG	<i>Electrically Tunable Terahertz Resonance in Antiferromagnetic NiO/Pt Heterostructures</i>	China
01:30	Rinsuke YAMADA	<i>Thermoelectric Nernst effect enhanced by instability of RKKY-type magnetic order</i>	Japan
01:45	Soobeom LEE	<i>Electric double layer modulation of spin-orbit torque efficiencies in Pt/Co/Pt trilayer</i>	Korea

Session 2

UTC	CEST	JST	PDT	EDT
02:00	04:00	11:00	19:00	22:00

02:00	Sateesh KANDUKURI	<i>Antiskyrmion nucleation in magnetic tunnel junctions</i>	India
02:15	Tomomi SUWA	<i>Pattern recognition between 3D microstructure and magnetic domain of a Tb diffused Nd-Fe-B sintered magnet</i>	Japan
02:30	Aruna JOSEPH	<i>Tailoring the Optical and Dielectric Properties of MnFe₂O₄ with Dysprosium Substitution</i>	India

02:45 *Semi-plenary speaker:*
Soogil LEE *Efficient conversion of orbital current to spin current for spin-orbit torque* Korea

03:15 Poster session APAC-1 / Social activity
(Gather.Town)

Session 3

UTC	CEST	JST	PDT	EDT
04:00	06:00	13:00	21:00	00:00

04:00 *Semi-plenary speaker:*
Weiyao ZHAO *Enabling high efficient spintronics in amorphous Co₂MnGa* Australia

04:30	Sharanjeet SINGH	<i>Enhanced thermal stability of magnetic anisotropy in obliquely deposited Co films on the nanopatterned substrate</i>	India
04:45	Soumyaranjan RATHA	<i>Minimizing Magnetic Damage During Microfabrication through Optimal Etching Conditions in BiFeO₃-based Thin Films</i>	Japan
05:00	Francesco CALAVALLE	<i>Gate-tunable and chirality-dependent charge-to-spin conversion in Tellurium nanowires</i>	Japan
05:15	Taiki NISHIJIMA	<i>Nonvolatile Switching of Nonlinear Hall Effect in a Topological Crystalline Insulator at Room Temperature</i>	Japan
05:30	Subhadip GHOSH	<i>Anisotropic effect of inertial dynamics and influence of the inter-sublattice coupling on antiferromagnets</i>	India
05:45	Fehmi Sami YASIN	<i>Three-dimensional vector field electron tomography of a Bloch point quadrupole constituting hybrid antiskyrmions.</i>	Japan

Session 4

UTC	CEST	JST	PDT	EDT
06:00	08:00	15:00	23:00	02:00

06:00	Mahiro YAMAMOTO	<i>Observation of spin-dependant photocurrent in conducting SrTiO₃</i>	Japan
06:15	Aparna ASHOK	<i>Co-existence of ferro-antiferromagnetism and transport properties in Fe₂MnAl Heusler Alloy</i>	India
06:30	Rayan Ali MOUKHADER	<i>Manipulation of magnetic solitons under the influence of DMI gradients</i>	Lebanon

06:45 *Semi-plenary speaker:*
Susmita SAHA *Spinwave dynamics in 2D magnonic fractals* India

07:15 **Poster session APAC-2 / Social activity**
(Gather.Town)

Session 5

UTC	CEST	JST	PDT	EDT
08:00	10:00	17:00	01:00	04:00

08:00 *Plenary speaker:*
Diana LEITAO *Designing magnetoresistive sensors with tunable characteristics* Netherlands

08:45	Roselle NGALOY	<i>Room temperature spin valve devices from vdW magnet/graphene heterostructures</i>	Sweden
09:00	Mikhail PANIN	<i>Low-temperature magnetic properties of LPE-grown (YBiCa)₃Fe₅O₁₂ thin film</i>	Russia
09:15	Lars SJÖSTRÖM	<i>All-Electrical Detection of Magnetic Domains in a Graphene Spin Valve Device</i>	Sweden
09:30	Timur NIZAMOV	<i>Seed-mediated synthesis of Zn, Mn, Co, Fe ferrites using live growth concept in polyol media</i>	Russia
09:45	Giovanni MASCIOCCHI	<i>Imprinting CMOS compatible strain gradients for spintronics</i>	Germany

Session 6

UTC	CEST	JST	PDT	EDT
10:00	12:00	19:00	03:00	06:00

10:00	Danny Yosmar VILLANUEVA ALVARO	<i>Relationship between the heating efficiency and the morphology of magnetosomes of Magnetovibrio blakemorei</i>	Spain
10:15	Adithya RAJAN	<i>Revealing the higher order spin nature of the Hall effect in noncollinear antiferromagnet Mn₃Ni_{0.35}Cu_{0.65}N</i>	Germany
10:30	Sergej SOLOV'YOV	<i>Study of domain walls pinning in BiFeO₃ multiferroic using global optimization</i>	Russia

10:45 *Semi-plenary speaker:*
**Miguel Alexandre
RAMOS DOCAMPO** *Magnetic motors for locomotion in inhomogeneous environments* Denmark

11:15 **Poster session EMEA-1 / Social activity**
(Gather.Town)

Session 7

UTC	CEST	JST	PDT	EDT
12:00	14:00	21:00	05:00	08:00

12:00 *Semi-plenary speaker:*
Olga MIROSHKINA *Effect of disorder on magnetism and lattice dynamics of multifunctional magnetic Heusler alloys: insight from the first principles* Germany

12:30	Aaron JAUFENTHALER	<i>Human sized quantitative imaging of magnetic nanoparticles using optically pumped magnetometers</i>	Austria
12:45	Nirel BERNSTEIN	<i>Spin torque driven Skyrmion resonance in frustrated Fe₃Sn₂ crystal at room temperature</i>	Israel
13:00	Jorge VERGARA	<i>Up-Scaled Casting and Milling of MnAlC Alloys: Coercivity Development for Rare Earth-free Permanent Magnets</i>	Spain
13:15	Sonal SHREYA	<i>Multifunctional Spintronic Devices for Neuromorphic Computing</i>	Denmark
13:30	Sally LORD	<i>Characterising Epitaxial Noncollinear Exchange Coupled Trilayers of Co₂MnSi / Cr / Co₂MnSi for Magnonic Applications</i>	UK
13:45	Adrian FERNANDEZ-CALZADO	<i>Steering Majorana braiding via skyrmion-vortex pairs: A scalable platform</i>	Spain

Session 8

UTC	CEST	JST	PDT	EDT
14:00	16:00	23:00	07:00	10:00

14:00	Jintao SHUAI	<i>Surface acoustic wave effect on magnetisation dynamics in thin films</i>	UK
14:15	Katrijn EVERAERT	<i>Thermal Noise Magnetometry of Magnetic Nanoparticle Ensembles</i>	Belgium
14:30	Javier HERMOSA	<i>Confined Bloch points in a ferrimagnetic exchange spring</i>	Spain

14:45 *Semi-plenary speaker:*
Mohammed Cherif KIHAL *An overview of near-field measurement and the inverse modeling methods* Algeria

15:15 **Poster session EMEA-2 / Social activity**
(Gather.Town)

Session 9

UTC	CEST	JST	PDT	EDT
16:00	18:00	01:00	09:00	12:00

16:00 *Plenary speaker:*
Pedram KHALILI *Computing with voltage-controlled magnetic tunnel junctions* USA

16:45	Frederik Laus DURHUUS, Joachim HERMANSEN	<i>Magnetic Levitation by Rotation</i>	Denmark
17:00	Somnath GHARA	<i>In-situ electric control of antiferromagnetic domains in antiferromagnetic insulator Co₃O₄</i>	Germany
17:15	Thomas FEGGELER	<i>Unraveling localized GHz dynamic magnetic responses by element-specific Time-Resolved Scanning Transmission X-ray Microscopy</i>	USA
17:30	In Jun PARK	<i>First principles calculation and experimental study of the intrinsic spin Hall Effect in La_{0.67}Sr_{0.33}MnO₃</i>	USA
17:45	José Claudio CORSALETTI FILHO	<i>Simultaneous in-situ applied magnetic field and temperature adapted to a sputtering system</i>	Brazil

Session 10

UTC	CEST	JST	PDT	EDT
18:00	20:00	03:00	11:00	14:00

18:00	Dong Seob KIM	<i>Anisotropic Excitons Reveal Local Spin Chain Directions in a van der Waals Antiferromagnet</i>	USA
18:15	Hannah BRADLEY	<i>Antiferromagnetic artificial neuron modeling of biological neural networks</i>	USA
18:30	Michael F DISCALA	<i>Elucidating the Role of Dimensionality on the Electronic Structure of the van der Waals Antiferromagnet NiPS₃</i>	USA

18:45 *Semi-plenary speaker:*
Diego ROSALES *Magnetic Skyrmions and the Role of a Chiral Spin Liquid to Enhance Their Stability in the Presence of Thermal Fluctuations* Argentina

19:15 **Poster session Americas-1 / Social activity**
(Gather.Town)

Session 11

UTC	CEST	JST	PDT	EDT
20:00	22:00	05:00	13:00	16:00

20:00 *Semi-plenary speaker:* **Radhika BARUA** *Towards Additive Manufacturing of Thin-walled Magnetocaloric Structures* USA

20:30 Breno Malvezzi CECCHI *Magnetic phase recognition of artificial kagome spin ice through initial magnetization curve* Brazil

20:45 Md Golam MORSHED *Pulse-activated Probabilistic Switching of Medium Barrier Magnet-based Perpendicular Magnetic Tunnel Junctions* USA

21:00 Sebastian PASSANANTE *Exploiting mesoporous oxide thin films as a highly ordered template for manganite magnetic nanoparticles arrays* Argentina

21:15 Mahmoud RASLY *Tunnel magnetoresistance sensor devices with magnetically-engineered amorphous free layers* USA

21:30 Giuliano Andrés BASSO *MNP Radiofrequency magnetic cycles: relaxation time from first harmonic in different carrier media* Argentina

21:45 Vinicius Gomes DE PAULA *Magnetic and structural properties of $\text{Co}_{2-x}\text{Cu}_x\text{MnTi}$ all-d Heusler compounds* Brazil

Session 12

UTC	CEST	JST	PDT	EDT
22:00	00:00	07:00	15:00	18:00

22:00 Dinesh WAGLE *Observation of thermally activated coherent magnon-magnon coupling in a magnonic hybrid system* USA

22:15 Fen XUE *Field-free spin-orbit torque (SOT) switching with unconventional spin polarizations in ultrathin $[\text{Pt}/\text{Co}]_N$* USA

22:30 Yeni Josefina SANCHEZ *Magnetic properties of CoFe_2O_4 and MnFe_2O_4* Venezuela

22:45 Ines CORTE *Exploring quantum skyrmions in the antiferromagnetic triangular lattice* Argentina

23:00 **Poster session Americas-2 / Social activity**
(Gather.Town)

23:30 *Semi-plenary speaker:* **Sophie MORLEY** *The dynamics of magnetic helices in an amorphous material using coherent synchrotron x-rays* USA

24:00 **Parting words & Aftershow party**
(Gather.Town)