

AtC-AtG CONFERENCE PROGRAM

31 August 2022

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 Invited speaker:
Fanny BÉRON

Tuning isolated zero-field skyrmions and spin spirals at room-temperature in synthetic ferrimagnetic multilayers

Brasil

00:45	Ekaterina DENGINA	<i>Neural network prediction of nanodefects and magnetic anisotropy in FePt-X HAMR Media</i>	Japan
01:00	María Soledad APREA	<i>Magnetic properties of polycrystalline cylindrical Fe₆₅Pd₃₅ nanowires</i>	Argentina
01:15	Susant Kumar ACHARYA	<i>Ionic liquid gating control of magnetic anisotropy in magnetic tunneling junction stacks</i>	New Zealand
01:30	Adam G WHITNEY	<i>Damping in STT-MRAM free layers at elevated temperatures</i>	USA
01:45	McCoy Wei LIM	<i>Current-induced nucleation of magnetic skyrmions in multilayered devices</i>	Singapore

Session 2

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

02:00	Sen YAN	<i>Extracellular magnetic labeling of mesenchymal stem cell spheroids with ferumoxytol for MRI tracking</i>	China
02:15	Yuhua REN	<i>Estimation of magnetic parameters from domain images with convolutional neural networks</i>	Singapore
02:30	Esita PANDEY	<i>Emergence of sizeable interfacial Dzyaloshinskii-Moriya interaction at Cobalt/Fullerene spinterface</i>	India

02:45 Invited speaker:
Max HIRSCHBERGER

Spin Dynamics and electronic transport: emergent inductance and chiral fluctuations

Japan

03:15

Poster session / Social activity
(Gather.Town)

Session 3

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

04:00	<i>Invited speaker: Se Kwon KIM</i>	<i>Topological spin transport in two-dimensional magnets</i>	South Korea
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04:30	Ming Sheng Nicholas TEY	<i>Hardware accelerated spiking neural networks based on zero-field skyrmions</i>	Singapore
04:45	Koustuv ROY	<i>Spin Pumping and Inverse spin Hall effect in Co₃O₄</i>	India
05:00	Shaktiranjan MOHANTY	<i>Magnetization reversal and domain structures in perpendicular synthetic antiferromagnets prepared on rigid and flexible substrates</i>	India
05:15	Soumyaranjan RATHA	<i>Enhancement of magnetic properties by Lanthanides substitution in (Bi,L)(Fe,Co)O₃ (L = La, Nd, Sm, Gd, Dy, Er) multiferroic thin films</i>	Japan
05:30	Brindaban OJHA	<i>Excess velocity of domain walls in Pt/CoFeB thin films</i>	India
05:45	Michael DEREVYANKO	<i>Temperature dependence of electric impedance of the Cobalt-based soft magnetic wires near the ferromagnetic phase transition</i>	Russia

Session 4

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

06:00	Rajeswari ROY CHOWDHURY	<i>An alternative route for tuning unconventional Hall effect in layered ferromagnet Fe₃(Ge,As)Te₂</i>	India
06:15	Ravindra MEENA	<i>Europium coated Mn doped Fe₂O₄ nanoparticle for Magnetic hyperthermia: Synergistic strategy for cancer treatment and imaging</i>	India
06:30	Jintao SHUAI	<i>Enhanced domain wall motion by surface acoustic waves</i>	UK

06:45	<i>Invited speaker: Peng SONG</i>	<i>Detection of 2D magnetic states with spin Hall effects</i>	Singapore
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07:15	Poster session / Social activity (Gather.Town)
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Session 5

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

08:00 Invited speaker:
Xichao ZHANG

Frustrated skyrmions and bimerons

Japan

08:45	Mona BHUKTA	<i>Room-temperature stabilization of skyrmionic surface-magnetic textures in synthetic antiferromagnets</i>	Germany
09:00	Anastasiia Evgenievna DRIAGINA	<i>Synthesis and magnetic properties of nanowires in thin-film anodic alumina</i>	Russia
09:15	Aijaz Hamid LONE	<i>Skyrmion based neuromorphic device with short- and long-term synaptic plasticity</i>	Saudi Arabia
09:30	Zilu WANG	<i>Field-free spin orbit torque switching of synthetic antiferromagnet through interlayer Dzyaloshinskii-Moriya interaction</i>	China
09:45	Sumit GHOSH	<i>Ultrafast optical generation of magnetic texture pairs</i>	Germany

Session 6

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

10:00	Luciano MAZZA	<i>Unconventional computing using spintronic oscillators</i>	Italy
10:15	Maarten Alexander BREMS	<i>Brownian reservoir computing realized using geometrically confined skyrmions</i>	Germany
10:30	Marta BRIOSCHI	<i>All-optical generation and time-resolved polarimetry of magneto-acoustic resonances via Transient Grating spectroscopy</i>	Italy

10:45 Invited speaker:
Claire DONNELLY

Visualising three-dimensional spin textures

Germany

11:15

Poster session / Social activity
(Gather.Town)

Session 7

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

12:00	Invited speaker: Mariia EFREMOVA	<i>Genetically controlled magnetic nanocompartments for cell manipulation - better than ferritin?</i>	Netherlands
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12:30	Lin LUO	<i>Microstructure and magnetocaloric effect of $Mn_{1.3}Fe_{0.6}P_{0.5}Si_{0.5}$ microwires</i>	Spain
12:45	Gunasheel Kauwtilyaa KRISHNASWAMY	<i>Time-dependent multistate switching of topological antiferromagnetic order in Mn_3Sn</i>	Switzerland
13:00	Lionel PETIT	<i>Graphene Hall sensors for high performance magnetometry</i>	France
13:15	Javier HERMOSA	<i>3D magnetic structure of Py microstructures studied by vector tomography and micromagnetism</i>	Spain
13:30	Martín TESTA-ANTA	<i>Leveraging symmetry for an accurate spin-orbit torque quantification in ferrimagnetic insulators</i>	Spain
13:45	Sebastián Alejandro DÍAZ	<i>Steering Majorana braiding via skyrmion-vortex pairs: A scalable platform</i>	Germany

Session 8

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

14:00	Juan Diego AGUILERA	<i>Gas sensors using magnetic nanoparticles and spin waves</i>	Spain
14:15	Oliver James AMIN	<i>Antiferromagnetic half-skyrmions electrically generated and controlled at room temperature</i>	UK
14:30	Joanna WOLFF	<i>Optomechanics of magnetic van der Waals heterostructures</i>	France

14:45	Invited speaker: Alexander MOOK	<i>Interacting Topological Magnons</i>	Germany
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15:15	Poster session / Social activity (Gather.Town)		
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Session 9

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

16:00	<i>Invited speaker: Miriam JAAFAR</i>	<i>Advances in magnetic force microscopy</i>	Spain
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16:45	Marco Antonio MORALES	<i>Mn_xFe_{3-x}O₄ Nanoparticles for Magnetic Hyperthermia</i>	Argentina
17:00	Alberto ANADÓN	<i>Spin conversion in epitaxial monolayer graphene structures</i>	France
17:15	César Leandro LONDOÑO CALDERÓN	<i>Magnetic vortex domain wall observation on iron-cobalt alloy nanowires growing on commercial aluminium</i>	Colombia
17:30	Meg SMITH	<i>Optimisation of perpendicular magnetic tunnel junction structures using scanning transmission electron microscopy</i>	UK
17:45	Cody Alexander TREVILLIAN	<i>Interferometry of Single Magnon Decoherence Mechanisms</i>	USA

Session 10

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

18:00	Estela HERGUEDAS-ALONSO	<i>Recovering 3D magnetization of 2D structures and multilayers</i>	Spain
18:15	TBA	<i>TBA</i>	TBA
18:30	Matthew Ronald MCMASTER	<i>Tunable low magnetostrictive NiFe multilayers for high-frequency application</i>	UK

18:45	<i>Invited speaker: Xiang CHEN</i>	<i>Magnetism of the van der Waals magnet (Fe,Co,Ni)₅GeTe₂</i>	USA
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19:15	Poster session / Social activity (Gather.Town)
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Session 11

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

20:00	<i>Invited speaker: Gabriel LAVORATO</i>	<i>Hybrid magnetic nanoparticles: from synthesis to applications</i>	Argentina
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20:30	Sebastian Eduardo PASSANANTE	<i>Magnetocaloric effect in nanocrystalline manganite bilayer thin films</i>	Argentina
20:45	Robin KLAUSE	<i>Magnetic droplet solutions from exotic spin-orbit torques</i>	USA
21:00	Petro ARTEMCHUK	<i>Stabilization of a nonlinear spin wave bullet mode in the presence of a hot magnon gas</i>	USA
21:15	Fabiana Nakary MORALES	<i>Magnetocaloric effect of $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_3$ nanoparticles</i>	Argentina
21:30	Hannah BRADLEY	<i>Neuromorphic pattern recognition using antiferromagnetic artificial neurons</i>	USA
21:45	Cristóbal Ríos VENEGAS	<i>Dynamic origin of conical helix magnetization textures stabilized by Dzyaloshinskii-Moriya interaction</i>	Chile

Session 12

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

22:00	Josefina M SILVEYRA	<i>A new set of curves simplifies anhysteretic magnetization analysis</i>	Argentina
22:15	Santiago Antonio OSORIO	<i>Response of the chiral soliton lattice to spin polarized currents</i>	Argentina
22:30	Yeni Josefina SANCHEZ	<i>Magnetic and structural characterization of the $\text{FeIn}_{2y}\text{Cr}_{2-2y}\text{S}_4$ ($0.6 \leq y \leq 1$) system</i>	Venezuela
22:45	Gilvana Lucia da Silva VILELA	<i>Magnon valves with perpendicular magnetic anisotropy</i>	Brazil
23:00	Poster session / Social activity (Gather.Town)		

23:30	<i>Invited speaker: Jean Anne INCORIA</i>	<i>Using Magnetic Spin Textures for Cognitive Computing</i>	USA
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24:00	Parting words & Aftershow party (Gather.Town)		
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