



Trends in MAGnetism 2026

7th-11th September 2026, Milano, Italy

Monday, 7th September	
8:00-9:00	Registration
ROOM A	
9:00-9:15	Opening
	Session chair: <i>Christian Rinaldi</i>
9:15-10:00	Tiffany Santos , Western Digital - " <i>Spins and Flips: Advanced Studies with Tiny MRAM Bits</i> " (keynote)
10:00-10:30	Philipp Pirro , Rheinland-Pfälzische Technische Universität - " <i>Microscaled tuneable spin-wave devices: influence of magnon-magnon interaction on the performance of standalone phase shifters</i> "
10:30-11:00	Coffee Break
ROOM A	ROOM B
Session chair: <i>Matteo Cantoni</i>	Session chair: <i>Daniela Petti</i>
11:00-11:15	Mikhail Titov - " <i>Boundary-Driven Orbital Kerr Effect from an Interband Coherence Drift</i> "
11:15-11:30	Tamer Karaman - " <i>Discovery of imprinted faint domain patterns in amorphous ferrimagnets</i> "
11:30-11:45	Hiroyuki Awano - " <i>Two-Dimensional Reversible Domain Control by Laser Scanning under In-Plane Field in GdFeCo/Pt Films</i> "
11:45-12:00	Andrea Droghetti - " <i>Spin-polarized transport and correlation effects in van der Waals ferromagnets</i> "
12:00 - 12:15	Giovanni Maria Vinai - " <i>Strain-driven metastable magnetic domain stabilization in PMN-0.4PT/Ni heterostructures via mild annealing</i> "
12:15 - 12:30	Franco Camargo - " <i>Widefield femtosecond chiroptical imaging via multiplexed off-axis holography</i> "
12:30 - 14:00	LUNCH BREAK (free time)
ROOM C	
Session chairs: <i>Philipp Pirro, Carlos Rojas-Sánchez, Rikako Yamamoto</i>	
14:00 - 15:15	Poster Session A
15:15 - 16:00	Poster Session A / Coffee Break
Session chair: <i>Alberto Brambilla</i>	Session chair: <i>Riccardo Bertacco</i>
16:00 - 16:15	Michaela Kuepferling - " <i>Decoupling Magnetoresistive effects in Spin Hall Magnetoresistance Sensors by Hysteresis Modeling</i> "
16:15 - 16:30	Piero Florio - " <i>Programmable Integrated Magnonic Meshes</i> "
16:30 - 16:45	Antoni Frej - " <i>Voltage control of magnonic Fabry-Pérot resonators</i> "
16:45 - 17:00	Federico Maspero - " <i>MEMS and magnonics technology platform: standalone and tunable RF systems</i> "
17:00 - 17:15	Walter Piazza - " <i>Multiferroic K_{0.27}Na_{0.73}NbO₃/CoFeB heterostructure for magnonic devices</i> "
17:15 - 17:30	Andrei Shumilin - " <i>Multiscale modelling of magnonic devices</i> "
17:30 - 17:45	Steffen Wittrock - " <i>Nonlinear magnons revealed in reciprocal space: Magnon momentum microscopy</i> "
17:45 - 18:00	Gaurav Pransu - " <i>Investigation of transport and magnetic properties of intercalated 2H-NbS₂</i> "
18:00 - 18:30	Peter Rickhaus , Sponsor Qnami- " <i>Characterization of fragile magnetic states in 3D systems using Scanning NV microscopy</i> "
18:30 - 20:00	Welcome Reception



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Tuesday, 8th September	
8:00 - 9:00	Registration
ROOM A	Session chair: <i>Paola Tiberto, Silvia Picozzi</i>
9:00 - 9:30	Jordi Sort Vinas , Universitat Autònoma de Barcelona - "Merging voltage-iontronics with magnetism: fundamentals and applications in data security and advanced memory concepts"
9:30 - 10:00	Pietro Gambardella , ETH Zurich - "Orbital transport and relaxation in metal layers and insulating antiferromagnets"
10:00 - 10:30	Evgeny Tsymbal , University of Nebraska-Lincoln - "Spin Transport in Noncollinear Antiferromagnetic Tunnel Junctions"
10:30 - 11:00	Coffee Break
	ROOM A Session chair: <i>Riccardo Tomasello</i> ROOM B Session chair: <i>Andrea Picone</i>
11:00 - 11:15	Federico Bottegoni - "Non-local architectures for spin current manipulation in group-IV semiconductor platforms"
11:15 - 11:30	Antonio Bianco - "Field-Free Switching via Current-Induced Torque in a MoS ₂ -Based Device"
11:30 - 11:45	Deepak Dagur - "X-ray detection of current-induced orbital accumulation in 3d metals"
11:45 - 12:00	Fatma Al Ma'Mari - "Coexistence of Rod-Like Domains and Skyrmions in Ta- and W Based Asymmetric Multilayers"
12:00 - 12:15	Nicolas Biziere - "Imaging spin waves by electron holography"
12:15 - 12:30	Davi Rodrigues - "Spintronic Architectures for Edge Computing and Communication"
12:30 - 14:00	LUNCH BREAK (free time)
ROOM C	Session chair: <i>Michaela Kuepferling, Jordi Sort Vinas, Kai Liu</i>
14:00 - 15:15	Poster Session B
15:15 - 16:00	Poster Session B / Coffee Break
ROOM A	Session chair: <i>Evgeny Tsymbal</i>
16:00 - 16:30	Carlos Rojas-Sánchez , Institut Jean Lamour, France - "Interfacial Orbital Signal Conversion and Long-Range Propagation Enabled by Spin Current"
16:30 - 17:00	Dmitry Berkov , General Numerics Research Lab e.V. - "Design optimization of spin-torque-based RF energy harvesters: from resonant nanoelements to oscillating domain walls"
17:00 - 17:30	Hyunsoo Yang , National University of Singapore - "Ultrafast and energy-efficient spin dynamics in exchange-coupled systems"
	Young research award - Session chair: <i>Jagoda Slawinska, Pietro Gambardella, Evgeny Tsymbal</i>
17:30 - 17:45	Award Finalist: Emily Darwin - "Bias-engineered synthetic antiferromagnets hosting sub-20 nm zero-field skyrmions at room temperature"
17:45 - 18:00	Award Finalist: Adriano Di Pietro - "Reconciling Dzyaloshinskii-Moriya interaction measurements via spectroscopy methods and asymmetric bubble expansion in the creep regime"
18:00 - 18:15	Award Finalist: Esteban Garzón - "STT-MRAM-based Content-Addressable Memory for In-Memory and Neuromorphic Computing"



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Wednesday, 9th September

8:00 - 9:00	Registration
ROOM A	Session chair: <i>Hyunsoo Yang</i>
9:00 - 9:30	Peter Fischer , Lawrence Berkeley National Laboratory - <i>"Trends in magnetic X-ray spectromicroscopy towards spintronics"</i>
9:30 - 10:00	Valentin Alek Dediu , CNR-ISMN - <i>"New ferromagnetic phase induced by proximity effects in hybrid Ferromagnetic/Molecule systems"</i>
10:00 - 10:30	Silvia Picozzi , University Milan-Bicocca - <i>"Non-reciprocity in multiferroics"</i>
10:30 - 11:00	Coffee Break
ROOM A	Session chair: <i>Giovanni Finocchio</i>
11:00 - 11:30	Shinji Yuasa , National Institute of Advanced Industrial Science and Technology (AIST) - <i>"Highly reliable voltage-induced magnetization switching for voltage-controlled MRAM"</i>
11:30 - 12:00	Kai Liu , Georgetown University - <i>"3D magnetic nanostructures and effects of curvature "</i>
12:00 - 12:30	Lukas Fischer , Max-Planck Institute of Microstructure Physics - <i>"Driving magnetic domain walls with microwaves: from rectification to sustained motion"</i>
12:30 - 13:30	LUNCH BREAK (included)
13:30 - 23:00	Social Activities: Tour Bellagio/ Como/ Social Dinner

Thursday, 10th September

8:00 - 9:00	Registration
ROOM A	Session chair: <i>Kai Liu</i>
9:00 - 9:30	Jagoda Slawinska , University of Groningen - <i>"Spin-orbit physics in altermagnets"</i>
9:30 - 10:00	Stephan Mangin , Université de Lorraine and Institut Jean Lamour - <i>"Ultrafast All-Optical Switching in Spintronic Devices"</i>
10:00 - 10:30	Rikako Yamamoto , Max Planck Institute for Chemical Physics of Solids - <i>"Nanoscale altermagnetic spin textures with local variations in α-Fe₂O₃"</i>
10:30 - 11:00	Coffee Break
ROOM A	Session chair: <i>Tiffany Santos</i>
11:00 - 11:45	Pedram Khalili Amiri , Northwestern University - <i>"Computing with unconventional magnetic tunnel junctions"</i> (keynote)
11:45 - 12:15	Mathias Klaui , Johannes Gutenberg University, Mainz - <i>"Giant all-orbital interactions"</i>
12:15 - 12:45	Hari Srikanth , University of South Florida - <i>"Berry Curvature effects in Heusler and High-Entropy Alloys: From the Anomalous Hall Effect to Transverse Thermopower"</i>
12:45 - 14:00	LUNCH BREAK (free time)
ROOM A	Session chair: <i>Mathias Klaui</i>
14:00 - 14:30	Simone Finizio - <i>"Unlocking sub-10nm resolution imaging: Soft X-ray scanning microscopy at 4th generation lightsources"</i>
14:30 - 15:00	Andrea Meo - <i>"Innovative sensor solutions based on magnetic tunnel junctions"</i>
15:15 - 19:00	Social Activities - A guided tour of Milan's Cathedral



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Friday, 11th September		
8:00 - 9:00	Registration	
	ROOM A	ROOM B
	Session chair: <i>Andrea Meo</i>	Session chair: <i>Simone Finizio</i>
9:15 - 9:30	Dmitry Berkov - "Single-stage direct Langevin dynamics simulations of transitions over arbitrarily high energy barriers: optimal solution of the Kramers problem"	Alessandro Cataldo - "Exploring the full magneto-ionic oxidation spectrum in Pt/CoFeB/HfO ₂ "
9:30 - 9:45	Elia Strambini - "Unveiling Helical Magnetism in Al/NiBr ₂ thin films via the Supercurrent Diode Effect"	Gaspare Varvaro - "Rolled spin valves with perpendicular magnetic anisotropy"
9:45 - 10:00	Rüdiger Klingeler - "Uniaxial strain effects on the skyrmion lattice phases and phase diagrams in centrosymmetric Gd ₂ PdSi ₃ and GdRu ₂ Si ₂ "	Emma Van Meirvenne - "Strain transfer mechanisms and voltage generation in scaled composite magnetoelectric devices"
10:00 - 10:15	Nikhil Vijayan - "All-electrical detection of individual skyrmion motion in ferromagnetic multilayers via the anomalous Hall effect"	Piotr Mazalski - "The magnetic and electric properties of interlayer coupled cobalt layers induced by Ir/Pt spacer"
10:15 - 10:30	Maddalena Fiorentino - "Compositional optimization of CoTbGd ferrimagnetic films for skyrmion stabilization"	Alexander Chizhik - "Nanoscale coating induced control of magnetic states in amorphous magnetic microwires"
10:30 - 11:00	Coffee Break	
	Session chair: <i>Stephan Mangin</i>	
11:00 - 11:30	Can Avci , Institut de Ciència de Materials de Barcelona - "Rare-Earth Iron Garnets as a Platform for Emerging Spintronic Functionalities"	
11:30 - 12:00	Giovanni Finocchio , University of Messina - "New directions in probabilistic computing with extended probabilistic variables"	
12:00 - 12:30	Daoqian Zhu , Beihang University, China - "Spin-torque manipulation of antiferromagnets in magnetic tunnel junctions"	
12:30 - 13:00	Award and Closing	