Magnetism Division
Fachverband Magnetismus (MA)

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Overview of Invited Talks and Sessions

(Lecture halls HSZ/0002, HSZ/0004, POT/0112, POT/0151, POT/351, and POT/361; Poster P2 and P4)

Invited Talks

MA 1.1	Sun	16:00–16:30	TRE/PHYS	**Recent advances and challenges in magnetic structure determination** — •Dmytro Inosov
MA 4.1	Mon	9:30–10:00	POT/0151	**From ML to Kinetics: Modeling the Switching in Ferroelectric Wurtzites** — •Andrew Rappe, Drew Behrendt, Atanu Samanta, Von Braun Nascimento
MA 4.2	Mon	10:00–10:30	POT/0151	**Topological order parameter switching** — •Sergey Artyukhin
MA 4.3	Mon	10:30–11:00	POT/0151	**Optical Control of Ferroaxial Order via Circular Phonon Excitation** — •Zhiyang Zeng, Michael Först, Michael Fechner, Dharmalingam Prabhakaran, Paolo Radaelli, Andrea Cavalleri
MA 10.1	Mon	15:00–15:20	POT/0112	**Multi-field analysis of magnetic materials: Phase-field based simulations of magnetic domains and phase transition** — •Mobina Alaeddini, Jörg Schröder, Maximilian Vorwerk
MA 10.2	Mon	15:20–15:40	POT/0112	**Realistic Modelling of Finite Temperature Electron Transport Properties in Ferromagnets** — •Fabian Engelke, Christian Heiliger
MA 10.3	Mon	15:55–16:20	POT/0112	**Exploring magneto- and multicaloric materials for room and cryogenic temperature applications** — •Benedikt Beckmann
MA 10.4	Mon	16:20–16:45	POT/0112	**Nonlinear magnon dynamics: From the discovery of Floquet magnons to CMOS-compatible magnon computing** — •Christopher Heins
MA 10.5	Mon	16:45–17:10	POT/0112	**The geometric memory of quantum wave functions** — •Niclas Heinsdorf
MA 10.6	Mon	17:10–17:35	POT/0112	**Altermagnets and Odd-parity-wave Magnets** — •Anna Birk Hellenes
MA 14.1	Tue	9:35–10:20	HSZ/0002	**Femtophonomagnetism** — •Sangeeta Sharma, John Dewhurst
MA 14.2	Tue	10:20–10:50	HSZ/0002	**THz-driven dynamical ferroicity in paraelectric and diamagnetic perovskites** — •Martina Basini
MA 14.3	Tue	10:50–11:20	HSZ/0002	**Angular momentum transfer and chiral phonons from first principles** — •Markus Weissenhofer, Philipp Rieger, MS Mrudul, Luca Mikadze, Sergiy Mankovsky, Svitlana Polesya, Hubert Ebert, Ulrich Nowak, Peter M. Oppeneer
MA 14.4	Tue	11:35–12:05	HSZ/0002	**Inertial Spin Dynamics: A Signature of Non-Markovian Interactions in Ferromagnets** — •Vivek Unikandanunni, Felix Hartmann, Matias Bargheer, Eric Fullerton, Stefano Bonetti, Janet Anders
MA 14.5	Tue	12:05–12:35	HSZ/0002	**Atomistic simulations of ultrafast spin-lattice dynamics** — •Richard Evans, Mara Strungaru
MA 18.1	Tue	9:30–10:00	POT/0151	**Magnetic Cooling: From applications at room temperature to hydrogen liquefaction** — •T. Gottschall, E. Bykov, M. Strassheim, T. Platte, C. Fujta, D. Benke, M. Fries, W. Liu, A. Döring, K. Skokov, O. Gutfleisch, J. Wosnitza
MA 25.1	Wed	9:30–10:00	HSZ/0002	**Coherent phononic control of chirality** — •Michael Först

MA 25.2	Wed	10:00–10:30	HSZ/0002	**Towards a modern theory of chiralization (and can chiral phonons help us get there?)** — •Nicola Spaldin
MA 25.5	Wed	11:15–11:45	HSZ/0002	**Observation and control of chiral phonons in non-centrosymmetric materials** — •Hiroki Ueda
MA 27.1	Wed	9:30–10:00	HSZ/0004	**Towards sub-10fs magnetization switching** — Reza Rouzegar, Oliver Franke, Gal Lemut, Oliver Gueckstock, Junwei Tong, Dieter Engel, Xianmin Zhang, Georg Woltersdorf, Piet W. Brouwer, Tobias Kampfrath, •Quentin Remy
MA 29.1	Wed	9:30–10:00	POT/0112	**Exploring the interplay between spin and chirality** — •Angela Wittmann
MA 35.1	Wed	15:00–15:30	POT/0112	**Magneto-optic Kerr effects of higher order in magnetization in thin films of different crystal orientations** — •Timo Kuschel
MA 40.1	Thu	9:30–10:00	HSZ/0002	**Magnetic order induced chiral phonons in a ferromagnetic Weyl semimetal** — •Luyi Yang
MA 40.6	Thu	11:15–11:45	HSZ/0002	**Thermal Hall Effects of Magnons and Phonons** — •Alexander Mook
MA 43.1	Thu	9:30–10:00	POT/0112	**Defect-Induced Phase Transitions in the 2D Magnetic Semiconductor CrSBr** — •Shengqiang Zhou
MA 44.1	Thu	9:30–10:00	POT/0151	**2D and 3D racetracks: Interplay of geometric and magnetic chiralities** — •Stuart Parkin
MA 44.2	Thu	10:00–10:30	POT/0151	**Combined MFM/KPFM at the Ultimate Sensitivity Limit for Probing Curvature-Engineered Micromagnetic States** — •Emily Darwin, Reshma Peremadathil Pradeep, Luca Berchialla, Daniel Rotthardt, Ales Hrabec, Hans Hug
MA 44.3	Thu	10:30–11:00	POT/0151	**Curvilinear magnetism in superconducting spintronics** — •Sol Jacobsen
MA 44.4	Thu	11:15–11:45	POT/0151	**Advanced Control of Magnetic Nanostructures via Metasurface Engineering and Voltage-Driven Functionalities** — •Anna Palau
MA 44.5	Thu	11:45–12:15	POT/0151	**Magnetic tomography of noncollinear spin textures in curvilinear geometries** — •Sandra Ruiz-Gomez

Invited Talks of the joint Symposium SKM Dissertation Prize 2026 (SYSD)

See SYSD for the full program of the symposium.

SYSD 1.1	Mon	9:30–10:00	HSZ/0002	**Stochastic-Calculus Approach to Non-equilibrium Statistical Physics** — •Cai Dieball
SYSD 1.2	Mon	10:00–10:30	HSZ/0002	**Nonuniform magnetic spin textures for sensing, storage and computing applications** — •Sabri Koraltan
SYSD 1.3	Mon	10:30–11:00	HSZ/0002	**Anomalous Quantum Oscillations beyond Onsager's Fermi Surface Paradigm** — •Valentin Leeb
SYSD 1.4	Mon	11:00–11:30	HSZ/0002	**Coherent Control Schemes for Semiconductor Quantum Systems** — •Eva Schöll
SYSD 1.5	Mon	11:30–12:00	HSZ/0002	**On stochastic thermodynamics under incomplete information: Thermodynamic inference from Markovian events** — •Jann van der Meer

Invited Talks of the joint Symposium Fluids with Broken Time-Reversal Symmetry: Odd/Hall Viscosity between Active Matter and Electron Flows (SYBS)

See SYBS for the full program of the symposium.

SYBS 1.1	Tue	9:30–10:00	HSZ/AUDI	**Odd viscosity in three-dimensional fluids: flows, wakes, and eddies** — •Tali Khain
SYBS 1.2	Tue	10:00–10:30	HSZ/AUDI	**Odd viscosity in two-dimensional hydrodynamic electron transport** — •Igor Gornyi, Dmitry Polyakov
SYBS 1.3	Tue	10:30–11:00	HSZ/AUDI	**Odd slip on chiral active surfaces** — •Andrej Vilfan, Yuto Hosaka
SYBS 1.4	Tue	11:15–11:30	HSZ/AUDI	**Parity-odd transport in electron fluids** — •Johanna Erdmenger
SYBS 1.5	Tue	11:30–11:45	HSZ/AUDI	**Curved Odd Elasticity** — Lazaros Tsaloukidis, Yuan Zhou, Jack Binysh, Nikta Fakhri, Corentin Coulais, •Piotr Surówka

Invited Talks of the joint Symposium Beyond Transistors: Material-Based Edge Computing Paradigms (SYBT)

See SYBT for the full program of the symposium.

SYBT 1.1	Wed	9:30–10:00	HSZ/AUDI	**Finding Neuromorphic Advantage with Magnetism** — •Johan Mentink
SYBT 1.2	Wed	10:00–10:30	HSZ/AUDI	**Accelerating Neural Networks Computation with Ferroelectric Oxides** — •Laura Bégon-Lours, Nikhil Garg, Alexandre Baigol, Anwesha Panda, Nathan Savoia, Alexander Flasby
SYBT 1.3	Wed	10:30–11:00	HSZ/AUDI	**a photonic approach to probabilistic computing** — •Wolfram Pernice
SYBT 1.4	Wed	11:15–11:45	HSZ/AUDI	**Tackling Reliability and Scalability in Neuromorphic Computing via Noise-aware Learning** — •Eleni Vasilaki
SYBT 1.5	Wed	11:45–12:15	HSZ/AUDI	**Bayesian nanodevices for trustworthy artificial intelligence** — •Damien Querlioz

Invited Talks of the joint Symposium Interacting Degrees of Freedom in Ultrathin Quantum Films (SYQF)

See SYQF for the full program of the symposium.

SYQF 1.1	Fri	9:30–10:00	HSZ/AUDI	**Exciton dressing by extreme nonlinear magnons in a layered semiconductor** — •Geoffrey M. Diederich
SYQF 1.2	Fri	10:00–10:30	HSZ/AUDI	**A tale of demons and decay in two-dimensional (alter)magnets** — •Alexander Mook
SYQF 1.3	Fri	10:30–11:00	HSZ/AUDI	**Magnetism, light and matter - Role of excitons in two-dimensional magnets** — •Florian Dirnberger
SYQF 1.4	Fri	11:15–11:45	HSZ/AUDI	**Advantages and challanges of resonance Raman scattering with infrared excitation energy** — •Leonetta Baldassarre
SYQF 1.5	Fri	11:45–12:15	HSZ/AUDI	**Shining light on 2D antiferromagnets** — •Dmytro Afanasiev

Sessions

MA 1.1–1.2	Sun	16:00–18:15	TRE/PHYS	**Hands-On Tutorial: Magnetic Structure Determination Using Fullprof and SARAh Representation Analysis (joint session MA/TUT)**
MA 2.1–2.12	Mon	9:30–12:45	HSZ/0004	**Altermagnets I**
MA 3.1–3.12	Mon	9:30–12:45	POT/0112	**Complex Magnetic Oxides**
MA 4.1–4.6	Mon	9:30–12:00	POT/0151	**Focus Session: Novel mechanisms of ferroic switching (joint session MA/FM)**
MA 5.1–5.9	Mon	9:30–12:00	POT/0351	**Surface Magnetism and Topological Insulators (joint session MA/TT)**
MA 6.1–6.12	Mon	9:30–12:45	POT/0361	**Magnetic Imaging Techniques I**
MA 7.1–7.86	Mon	9:30–12:30	P2	**Poster Magnetism I**
MA 8.1–8.13	Mon	15:00–18:30	HSZ/0002	**Altermagnets II**
MA 9.1–9.13	Mon	15:00–18:30	HSZ/0004	**Magnonics I**
MA 10.1–10.6	Mon	15:00–18:05	POT/0112	**INNOMAG e.V. Prizes 2026 (Diplom-/Master and Ph.D. Thesis)**
MA 11.1–11.11	Mon	15:00–18:00	POT/0151	**Electron Theory of Magnetism and Correlations (joint session MA/TT)**
MA 12.1–12.6	Mon	15:00–16:30	POT/0351	**Terahertz Spintronics**
MA 13.1–13.9	Mon	15:00–17:15	POT/0361	**Magnetic Heuslers and Semiconductors**
MA 14.1–14.5	Tue	9:30–12:40	HSZ/0002	**PhD Focus Session: What about the lattice? Lessons from (ultrafast) magnetism**
MA 15.1–15.7	Tue	9:30–12:45	HSZ/0003	**Focus Session: Quantum Sensing with Solid State Spin defects I (joint session TT/MA)**
MA 16.1–16.12	Tue	9:30–12:45	HSZ/0004	**Skyrmions I**
MA 17.1–17.11	Tue	9:30–12:30	POT/0112	**Multiferroics and Magnetoelectric Coupling (joint session MA/FM)**

MA 18.1–18.7	Tue	9:30–11:30	POT/0151	**Caloric Effects in Ferromagnetic Materials (joint session MA/TT)**
MA 19.1–19.11	Tue	9:30–12:30	POT/0361	**Frustrated Magnets I (joint session MA/TT)**
MA 20.1–20.6	Tue	14:00–15:30	HSZ/0002	**Altermagnets III**
MA 21.1–21.6	Tue	14:00–15:30	HSZ/0004	**Skyrmions II**
MA 22.1–22.5	Tue	14:00–15:30	BEY/0138	**Focus Session: Materials Discovery II – High throughput searches for functional magnetic materials (joint session FM/MA)**
MA 23.1–23.6	Tue	14:00–15:30	POT/0151	**Cooperative Phenomena: Spin Structures and Magnetic Phase Transitions (joint session MA/TT)**
MA 24.1–24.6	Tue	14:00–15:30	POT/0361	**Weyl Semimetals (joint session MA/TT)**
MA 25.1–25.9	Wed	9:30–12:45	HSZ/0002	**Focus Session: Chiral phonons and crystals coupled to magnetic order I**
MA 26.1–26.7	Wed	9:30–12:45	HSZ/0003	**Focus Session: Nickelate Superconductivity: Insights into Unconventional Pairing and Correlation Effects I (joint session TT/DS/MA)**
MA 27.1–27.11	Wed	9:30–12:45	HSZ/0004	**Ultrafast Magnetization Effects I**
MA 28.1–28.4	Wed	9:30–10:30	HSZ/0101	**Focus Session: Quantum Sensing with Solid State Spin defects II (joint session TT/HL/MA)**
MA 29.1–29.11	Wed	9:30–12:45	POT/0112	**Spin Transport and Orbitronics, Spin-Hall Effects I (joint session MA/TT)**
MA 30.1–30.12	Wed	9:30–12:45	POT/0151	**Functional Antiferromagnetism**
MA 31.1–31.12	Wed	9:30–12:45	POT/0361	**Frustrated Magnets II (joint session MA/TT)**
MA 32	Wed	14:00–17:30	HZDR	**Excursion: Current and Future High-Field THz User Facilities at HZDR**
MA 33.1–33.13	Wed	15:00–18:30	HSZ/0002	**Altermagnets IV**
MA 34.1–34.13	Wed	15:00–18:30	HSZ/0004	**Computational Magnetism I**
MA 35.1–35.10	Wed	15:00–18:00	POT/0112	**Spintronics (other effects) (joint session MA/TT)**
MA 36.1–36.13	Wed	15:00–18:30	POT/0151	**Molecular Magnetism and Magnetic Particles / Clusters I**
MA 37.1–37.9	Wed	15:00–17:15	POT/0351	**Non-Skyrmionic Magnetic Textures**
MA 38.1–38.14	Wed	15:00–18:45	POT/0361	**Ultrafast Magnetization Effects II**
MA 39.1–39.25	Wed	18:00–21:00	P2	**Poster Magnetism II**
MA 40.1–40.10	Thu	9:30–12:45	HSZ/0002	**Focus Session: Chiral phonons and crystals coupled to magnetic order II**
MA 41.1–41.11	Thu	9:30–12:30	HSZ/0003	**Focus Session: Nickelate Superconductivity: Insights into Unconventional Pairing and Correlation Effects II (joint session TT/DS/MA)**
MA 42.1–42.11	Thu	9:30–12:30	HSZ/0004	**Molecular Magnetism and Magnetic Particles / Clusters II**
MA 43.1–43.6	Thu	9:30–11:15	POT/0112	**Spin-Dependent Phenomena in 2D**
MA 44.1–44.8	Thu	9:30–13:00	POT/0151	**Focus Session: Curvilinear magnetism: Magnetics with nanoscale curved geometries (joint session MA/TT)**
MA 45.1–45.6	Thu	9:30–11:00	POT/0351	**Magnetic Relaxation and Gilbert Damping**
MA 46.1–46.5	Thu	9:30–10:45	POT/0361	**Magnetic Imaging Techniques II**
MA 47.1–47.11	Thu	15:00–18:00	HSZ/0002	**Altermagnets V**
MA 48.1–48.11	Thu	15:00–18:00	HSZ/0004	**Magnonics II**
MA 49.1–49.9	Thu	15:00–17:15	POT/0112	**Magnetic Imaging, Information Technology, and Sensors**
MA 50.1–50.9	Thu	15:00–17:15	POT/0151	**Bulk Materials: Soft and Hard Permanent Magnets**
MA 51.1–51.8	Thu	15:00–17:00	POT/0361	**Spin Transport and Orbitronics, Spin-Hall Effects II (joint session MA/TT)**
MA 52.1–52.40	Thu	15:00–17:00	P4	**Poster Magnetism III**
MA 53	Thu	18:00–19:00	HSZ/0002	**Members' Assembly**
MA 54.1–54.11	Fri	9:30–12:30	HSZ/0002	**Altermagnets VI**
MA 55.1–55.12	Fri	9:30–12:45	HSZ/0004	**Skyrmions III**
MA 56.1–56.6	Fri	9:30–11:30	BEY/0E40	**Focus Session: (Anti)ferroic states – Magnetic and magnetoelectric III (joint session FM/MA)**
MA 57.1–57.6	Fri	9:30–11:00	POT/0112	**Thin Films: Magnetic Coupling Phenomena / Exchange Bias and Magnetic Anisotropy**
MA 58.1–58.12	Fri	9:30–12:45	POT/0151	**Computational Magnetism II**
MA 59.1–59.11	Fri	9:30–12:30	POT/0361	**Magnonics III**

Members' Assembly of the Magnetism Division

Thursday 18:00–19:00 HSZ/0002

- Bericht
- Wahl
- Verschiedenes