

Magnetism Division Fachverband Magnetismus (MA)

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Overview of Invited Talks and Sessions

(Lecture halls H 1058, H 2013, EB 107, EB 202, EB 301, and EB 407; Poster A, C, and D)

Invited Talks

MA 3.1	Mon	9:30–10:00	H 2013	Effects of Magnetization Inertia in Spin Dynamics — ●ANNA SEMISALOVA
MA 6.1	Mon	9:30–10:00	EB 301	Studying single molecule magnets for quantum technologies — ●WOLFGANG WERNSDORFER
MA 9.1	Mon	15:00–15:30	H 2013	Optical control of 4f orbital state in rare-earth metals — ●N. THIELEMANN-KÜHN, T. AMRHEIN, W. BRONSCH, S. JANA, N. PONTIUS, R. Y. ENGEL, P. S. MIEDEMA, D. LEGUT, K. CARVA, U. ATXITIA, B. E. VAN KUIKEN, M. TEICHMANN, R. E. CARLEY, L. MERCADIER, A. YAROSLAVTSEV, G. MERCURIO, L. LE GUYADER, N. AGARWAL, R. GORT, A. SCHERZ, S. DZIARZHYTSKI, G. BRENNER, F. PRESSACCO, R.-P. WANG, J. O. SCHUNCK, M. SINHA, M. BEYE, G. S. CHIUZBĂIAN, P.. OPPENEER, M. WEINELT, C. SCHÜSSLER-LANGEHEINE
MA 14.1	Tue	9:30–10:00	H 1058	Neutron scattering studies of spin-freezing phenomena at quantum phase transitions — ●CHRISTIAN PFLEIDERER
MA 14.2	Tue	10:00–10:30	H 1058	Frustrations, glassiness and complexity of spin systems with large spatial dimension — ●MIKHAIL KATSNELSON
MA 14.3	Tue	10:30–11:00	H 1058	Self-Induced Spin Glass Phase and Thermally Induced Order in dhcp Nd — ●ANDERS BERGMAN
MA 14.6	Tue	11:45–12:15	H 1058	Frustrated Quantum Devices: Pathways to leverage exotic order in novel spintronic technologies — ●JAMES ANALYTIS
MA 14.9	Tue	12:45–13:15	H 1058	New Frontiers in Artificial Spin Ice: Phase Transitions in Two and Three Dimensions — ●GAVIN M. MACAULEY, LUCA BERCHIALLA, ALEXSANDRA PAC, TIANYUE WANG, ARMIN KLEIBERT, VALERIO SCAGNOLI, PETER M. DERLET, LAURA J. HEYRDERMAN
MA 21.1	Wed	9:30–10:00	H 1058	Altermagnets: An unconventional magnetic class — ●TOMAS JUNGWIRTH
MA 21.2	Wed	10:00–10:30	H 1058	Experimental evidence of time-reversal symmetry breaking in altermagnetic RuO₂ — ●O. FEDCHENKO, J. MINAR, A. AKASHDEEP, S.W. D'SOUZA, D. VASILYEV, O. TKACH, L. ODENBREIT, Y. LYTVYVENKO, Q. NGUYEN, D. KUTNYAKHOV, N. WIND, L. WENTHAUS, M. SCHOLZ, K. ROSSNAGEL, M. HOESCH, M. AESCHLIMANN, B. STADTMÜLLER, M. KLÄUI, G. SCHÖNHENSE, T. JUNGWIRTH, A. BIRK HELLENES, G. JAKOB, L. ŠMEJKAL, J. SINOVA, H.-J. ELMERS
MA 21.7	Wed	11:45–12:15	H 1058	Is my altermagnet ferromagneto-octupolar or ferromagneto-triakontadipolar (and does it matter)? — ●NICOLA SPALDIN
MA 21.8	Wed	12:15–12:45	H 1058	Negative critical current in an altermagnet Josephson junction — ●CARLO BEENAKKER
MA 22.1	Wed	9:30–10:00	H 2013	Emergence of intrinsic antiferromagnetic topological solitons in thin films — ●SAMIR LOUNIS

MA 26.1	Wed	15:00–15:30	H 1058	Enhanced Nernst effect in van der Waals tellurides — M. BEHNAMI, M. GILLIG, S. ASWARTHAM, G. SHIPUNOV, D. EFREMOV, B. R. PIENING, I. V. MOROZOV, K. OCHKAN, J. DUFOULEUR, V. KOCSIS, C. HESS, M. PUTTI, F. CAGLIERIS, B. BÜCHNER, ●H. REICHLVA
MA 26.2	Wed	15:30–16:00	H 1058	Hybrid transverse magneto-thermoelectric cooling in artificially tilted multilayers — ●KEN-ICHI UCHIDA
MA 26.3	Wed	16:00–16:30	H 1058	Nonlocal heat engines with hybrid quantum dot systems — ●RAFAEL SÁNCHEZ, MOJTABA S. TABATABAEI, DAVID SÁNCHEZ, ALFREDO LEVY YEYATI
MA 26.4	Wed	16:45–17:15	H 1058	Large anomalous Nernst thermoelectric performance in YbMnBi₂ — ●YU PAN, CONGCONG LE, BIN HE, SARAH WATZMAN, MENGYU YAO, JOHANNES GOOTH, JOSEPH HEREMANS, YAN SUN, CLAUDIA FELSER
MA 26.5	Wed	17:15–17:45	H 1058	A path to sustainable and scalable production of high-performance thermoelectric materials — ●MARIA IBÁÑEZ
MA 30.1	Wed	15:00–15:30	EB 301	Discovery of Hopfion rings in a cubic chiral magnet — ●NIKOLAI KISELEV
MA 34.1	Thu	9:30–10:00	H 1058	Giant effective magnetic fields from chiral phonons — ●DOMINIK M. JURASCHEK
MA 34.2	Thu	10:00–10:30	H 1058	Chiral phonons in quantum materials revealed by the thermal Hall effect — ●GAEL GRISSONNANCHE
MA 34.3	Thu	10:30–11:00	H 1058	Phonon chirality and thermal Hall transport — ●BENEDETTA FLEBUS, ALLAN H. MACDONALD
MA 34.4	Thu	11:15–11:45	H 1058	Orbital magnetic moment of phonons in diamagnetic and paraelectric perovskites — FILIP KADLEK, CHRISTELLE KADLEK, ●MARTINA BASINI, SERGEY KOVALEV, JAN-CHRISTOPH DEINERT, STEFANO BONETTI, STANISLAV KAMBA
MA 34.5	Thu	11:45–12:15	H 1058	Spin-lattice coupling in multiscale modeling — ●MARKUS WEISSENHOFER, SERGIY MANKOVSKY, SVITLANA POLESYA, HANNAH LANGE, AKASHDEEP KAMRA, HUBERT EBERT, ULRICH NOWAK
MA 44.1	Thu	15:00–15:30	EB 301	Synthetic antiferromagnets with ferromagnetic domains separated by antiferromagnetic domain walls — ●RUSLAN SALIKOV, FABIAN SAMAD, SEBASTIAN SCHNEIDER, DARIUS POHL, BERND RELLINGHAUS, JÜRGEN LINDNER, NIKOLAI KISELEV, OLAV HELLMIG
MA 51.1	Fri	9:30–10:00	H 2013	Functional and microstructural design of multicaloric Heusler alloys — ●FRANZISKA SCHEIBEL, LUKAS PFEUFFER, ANDREAS TAUBEL, CHRISTIAN LAUHOFF, PHILIPP KROOSS, THOMAS NIENDORF, OLIVER GUTFLEISCH

Invited Talks of the joint Symposium Three-Dimensional Nanostructures: From Magnetism to Superconductivity (SYMS)

See SYMS for the full program of the symposium.

SYMS 1.1	Mon	9:30–10:00	H 0105	3D Racetrack Memory — ●STUART PARKIN
SYMS 1.2	Mon	10:00–10:30	H 0105	Curved electronics: geometry-induced effects at the nanoscale — ●PAOLA GENTILE
SYMS 1.3	Mon	10:30–11:00	H 0105	Curvilinear micromagnetism — ●DENYS MAKAROV
SYMS 1.4	Mon	11:15–11:45	H 0105	Study of 3D superconducting nanoarchitectures — ●ROSA CÓRDOBA
SYMS 1.5	Mon	11:45–12:15	H 0105	3D nanoarchitectures for superconductivity and magnonics — ●OLEKSANDR DOBROVOLSKIY

Invited Talks of the joint Symposium SKM Dissertation Prize 2024 (SYSD)

See SYSD for the full program of the symposium.

SYSD 1.1	Mon	9:30–10:00	H 1012	Nonequilibrium dynamics in constrained quantum many-body systems — ●JOHANNES FELDMIEIER
SYSD 1.2	Mon	10:00–10:30	H 1012	Controlled Manipulation of Magnetic Skyrmions: Generation, Motion and Dynamics — ●LISA-MARIE KERN
SYSD 1.3	Mon	10:30–11:00	H 1012	Interactions within and between cytoskeletal filaments — ●CHARLOTTA LORENZ

SYSD 1.4	Mon	11:00–11:30	H 1012	Field theories in nonequilibrium statistical mechanics: from molecules to galaxies — ●MICHAEL TE VRUGT
SYSD 1.5	Mon	11:30–12:00	H 1012	Lightwave control of electrons in graphene — ●TOBIAS WEITZ

Invited Talks of the joint Symposium Synergistic Imaging Techniques: From Spins and Atoms to Ferroic Domains (SYSA)

See SYSA for the full program of the symposium.

SYSA 1.1	Mon	15:00–15:30	H 0105	Imaging with coherent soft X-rays — ●BASTIAN PFAU
SYSA 1.2	Mon	15:30–16:00	H 0105	Exploring ferroelectric domains and domain wall dynamics with quantitative STEM — ●MARTA D. ROSSELL
SYSA 1.3	Mon	16:00–16:30	H 0105	Scanning Oscillator Piezoresponse Microscopy: new tools to explore domain wall dynamics — ●NEUS DOMINGO, SHIVA RAGHURAMAN, RALPH BULANADI, PATRYCJA PARUCH, STEPHEN JESSE
SYSA 1.4	Mon	16:45–17:15	H 0105	Imaging probe nuclei environments using perturbed angular correlation spectroscopy: Examples from multiferroic BiFeO₃ — ●DORU C. LUPASCU, THIEN THANH DANG, GEORG MARSCHICK, MARIANELA ESCOBAR, ASTITA DUBEY, IAN YAP CHANG JIE, JULIANA HEINIGER-SCHELL
SYSA 1.5	Mon	17:15–17:45	H 0105	Exploring antiferromagnetic order at the nanoscale with a single spin microscope — ●VINCENT JACQUES, AUREORE FINCO

Invited Talks of the joint Symposium Diversity and Equality in Physics (SYDE)

See SYDE for the full program of the symposium.

SYDE 1.1	Tue	9:30–10:00	PTB HS HvHB	Workplace cultures in physics as a game changer for equal opportunities — ●MARTINA ERLEMANN
SYDE 1.2	Tue	10:00–10:30	PTB HS HvHB	Science on the Web: How networks bias academic communication online — ●AGNES HORVAT
SYDE 1.3	Tue	10:30–11:00	PTB HS HvHB	Citation inequity and gendered citation practices in contemporary physics — ●ERIN TEICH, JASON KIM, CHRISTOPHER LYNN, SAMANTHA SIMON, ANDREI KLISHIN, KAROL SZYMULA, PRAGYA SRIVASTAVA, LEE BASSETT, PERRY ZURN, JORDAN DWORKIN, DANI BASSETT
SYDE 1.4	Tue	11:15–11:45	PTB HS HvHB	The Diversity-Innovation Paradox in Science — ●BAS HOFSTRA
SYDE 1.5	Tue	11:45–12:15	PTB HS HvHB	Gender and retention patterns among U.S. faculty — ●AARON CLAUSET

Invited Talks of the joint Symposium Emerging Materials for Renewable Energy Conversion (SYEM)

See SYEM for the full program of the symposium.

SYEM 1.1	Wed	9:30–10:00	H 0105	Non-critical Materials Production for a Green Energy Transition — ●ANKE WEIDENKAFF, WENJIE XIE, MARC WIEDENMEYER
SYEM 1.2	Wed	10:00–10:30	H 0105	Strategies for the morphological design of photoactive oxynitride particles and electrodes for solar water-splitting. — ●SIMONE POKRANT
SYEM 1.3	Wed	10:30–11:00	H 0105	Computational workflows for an accelerated design of novel materials and interfaces — ●IVANO ELIGIO CASTELLI
SYEM 1.4	Wed	11:30–11:45	H 0105	Autonomous composition control of emerging nitride materials for solar energy conversion — ●ANDRIY ZAKUTAYEV
SYEM 1.5	Wed	11:45–12:00	H 0105	Understanding and tailoring the catalytic activity of spinel and perovskite surfaces from first principles calculations — ●ROSSITZA PENTCHEVA
SYEM 1.6	Wed	12:00–12:15	H 0105	Mastering Compositional Complexity in High Entropy Materials for Energy Applications - Towards Accelerated Materials Discovery by Integration of High-throughput Experimentation, Simulation, and Materials Informatics — ●ALFRED LUDWIG

Sessions

MA 1.1–1.3	Sun	16:00–18:10	H 1058	Tutorial: Thermoelectricity – Fundamental Aspects, Materials, Applications (joint session TT/TUT/MA)
MA 2.1–2.12	Mon	9:30–12:45	H 1058	Computational Magnetism I
MA 3.1–3.11	Mon	9:30–12:45	H 2013	Ultrafast Magnetization Effects I
MA 4.1–4.11	Mon	9:30–12:30	EB 107	Magnetic Heusler Compounds and Complex Magnetic Oxides
MA 5.1–5.12	Mon	9:30–12:45	EB 202	Spin Structures and Magnetic Phase Transitions I
MA 6.1–6.12	Mon	9:30–13:00	EB 301	Molecular Magnetism
MA 7.1–7.12	Mon	9:30–12:45	EB 407	Bulk Magnetic Materials and Magnetic Particles/Clusters
MA 8.1–8.7	Mon	15:00–18:25	H 1058	INNOMAG e.V. Prizes 2024 (Diplom-/Master and Ph.D. Thesis)
MA 9.1–9.12	Mon	15:00–18:30	H 2013	Ultrafast Magnetization Effects II
MA 10.1–10.11	Mon	15:00–18:00	EB 107	Electron Theory of Magnetism and Correlations/Other Theory
MA 11.1–11.14	Mon	15:00–18:45	EB 202	Functional Antiferromagnetism
MA 12.1–12.13	Mon	15:00–18:30	EB 301	Skyrmions I
MA 13.1–13.8	Mon	15:00–17:00	EB 407	Micro- and Nanostructured Magnetic Materials
MA 14.1–14.9	Tue	9:30–13:15	H 1058	Focus Session: Frustrated Magnetism and Local Order (joint session MA/TT)
MA 15.1–15.13	Tue	9:30–13:00	H 2013	Topological Insulators and Weyl Semimetals (joint session MA/TT)
MA 16.1–16.11	Tue	9:30–12:30	EB 107	Magnonics I
MA 17.1–17.12	Tue	9:30–12:45	EB 202	Computational Magnetism II
MA 18.1–18.13	Tue	9:30–13:00	EB 301	Magnetic Imaging and Sensors I
MA 19.1–19.11	Tue	9:30–12:30	EB 407	Surface Magnetism
MA 20.1–20.46	Tue	16:30–19:00	Poster A	Poster I
MA 21.1–21.10	Wed	9:30–13:15	H 1058	Phd Focus Session: Altermagnets: Foundations and Experimental Evidence
MA 22.1–22.9	Wed	9:30–12:15	H 2013	Thin Films: Coupling Effects and Exchange Bias
MA 23.1–23.6	Wed	9:30–11:00	EB 107	Magnonics II
MA 24.1–24.14	Wed	9:30–13:15	EB 202	Terahertz Spintronics I
MA 25.1–25.13	Wed	9:30–13:00	EB 301	Magnetic Imaging and Sensors II
MA 26.1–26.5	Wed	15:00–17:45	H 1058	Focus Session: Unconventional Thermoelectric Phenomena and Materials (joint session MA/TT)
MA 27.1–27.13	Wed	15:00–18:30	H 2013	Frustrated Magnets I
MA 28.1–28.8	Wed	15:00–17:00	EB 107	Thin Films: Magnetic Anisotropy
MA 29.1–29.15	Wed	15:00–19:00	EB 202	Spin-Dependent Phenomena in 2 D
MA 30.1–30.12	Wed	15:00–18:30	EB 301	Skyrmions II
MA 31.1–31.11	Wed	15:00–18:00	EB 407	Multiferroics and Magnetoelectric Coupling (joint session MA/KFM)
MA 32.1–32.7	Wed	15:00–18:00	Poster E	SrTiO₃: A Versatile Material from Bulk Quantum Paraelectric to 2D Superconductor: Poster (joint session TT/KFM/MA/O)
MA 33.1–33.7	Thu	9:30–12:45	H 0104	Focus Session: SrTiO₃: A Versatile Material from Bulk Quantum Paraelectric to 2D Superconductor I (joint session TT/KFM/MA/O)
MA 34.1–34.5	Thu	9:30–12:15	H 1058	Focus Session: Emerging Magnetic Phenomena from Chiral Phonons I (joint session MA/TT)
MA 35.1–35.12	Thu	9:30–12:45	H 2013	Spin Transport and Orbitronics, Spin-Hall Effects I (joint session MA/TT)
MA 36.1–36.5	Thu	9:30–10:45	EB 202	Terahertz Spintronics II
MA 37.1–37.13	Thu	9:30–13:00	EB 301	Skyrmions III
MA 38.1–38.6	Thu	11:15–12:45	EB 202	Ultrafast Magnetization Effects III
MA 39.1–39.11	Thu	15:00–18:00	H 0104	SrTiO₃: A Versatile Material from Bulk Quantum Paraelectric to 2D Superconductor II (joint session TT/KFM/MA/O)
MA 40.1–40.10	Thu	15:00–17:45	H 1058	Frustrated Magnets II
MA 41.1–41.10	Thu	15:00–17:45	H 2013	Spintronics (Other Effects)
MA 42.1–42.4	Thu	15:00–16:00	EB 107	Spin Transport and Orbitronics, Spin-Hall Effects II (joint session MA/TT)
MA 43.1–43.8	Thu	15:00–17:15	EB 202	Magnetic Semiconductors, Magnetization Dynamics and Damping

MA 44.1–44.9	Thu	15:00–17:45	EB 301	Non-Skyrmionic Magnetic Textures
MA 45.1–45.4	Thu	15:00–16:00	EB 407	Spin Structures and Magnetic Phase Transitions II
MA 46.1–46.86	Thu	15:00–18:00	Poster C	Poster II
MA 47.1–47.33	Thu	15:00–18:00	Poster D	Poster III
MA 48	Thu	18:00–19:00	H 1058	Members' Assembly
MA 49.1–49.11	Fri	9:30–12:30	H 0104	SrTiO₃: A Versatile Material from Bulk Quantum Paraelectric to 2D Superconductor III (joint session TT/KFM/MA/O)
MA 50.1–50.8	Fri	9:30–11:30	H 1058	Focus Session: Emerging Magnetic Phenomena from Chiral Phonons II (joint session MA/TT)
MA 51.1–51.13	Fri	9:30–13:15	H 2013	Caloric Effects in Ferromagnetic Materials
MA 52.1–52.15	Fri	9:30–13:30	EB 202	Altermagnets
MA 53.1–53.5	Fri	9:30–10:45	EB 301	Skyrmions IV

Members' Assembly of the Magnetism Division

Thursday 18:00–19:00 H 1058

- Bericht
- Wahl
- Verschiedenes