

Magnetism Division Fachverband Magnetismus (MA)

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Overview of Invited Talks and Sessions

(Lecture Rooms: HSZ 04, HSZ 401, HSZ 403, BEY 118; Posters: P1 (Tuesday) and P2 (Friday))

General Meeting of the Magnetism Division (Fachverband Magnetismus)

Wednesday 18:15–19:30 HSZ 04

All members of the Magnetism Section are invited to participate!

Thyssen-Krupp Electrical Steel Dissertationspreis

Monday 12:30–14:00 HSZ 04

Four candidates will compete for the prize. Please attend!

Invited Talks

MA 11.1	Mon	15:00–15:30	BEY 118	Design principles of Dirac fermions and Mott insulating states in (111) oriented perovskite superlattices — ●ROSSITZA PENTCHEVA
MA 20.1	Tue	15:00–15:30	BEY 118	Manipulating the magnetic properties of single atoms on surfaces — ●ALEXANDER AKO KHAJETOORIANS
MA 20.2	Tue	15:30–16:00	BEY 118	Spin Interaction of Atoms studied with Ultrafast STM — ●SEBASTIAN LOTH

PhD-Student Symposium "Magnon Plasmonics": Topical Talks (jointly with jDPG)

MA 13.1	Tue	9:30–10:15	HSZ 04	Plasmons & Magnons: Collective excitations of charge and spin — ●ROBERT STAMPS
MA 13.2	Tue	10:15–10:45	HSZ 04	Nanomagnonics - reprogrammable wave control beyond plasmonics — ●DIRK GRUNDLER
MA 13.5	Tue	11:30–12:00	HSZ 04	Basic concepts of magneto-plasmonics illustrated with an exactly solvable system — ●ANTONIO GARCÍA-MARTÍN, GASPAR ARMELLES, ALFONSO CEBOLLADA, MARIA U. GONZALEZ
MA 13.8	Tue	13:30–14:00	HSZ 04	Magnetoplasmonics with plasmon nanoantennas — ●ALEXANDRE DMITRIEV
MA 13.11	Tue	14:30–15:00	HSZ 04	Ultrafast phenomena in magneto-plasmonic multilayer structures — ●VASILY TEMNOV

Symposium SYMO "Magnetic/Organic Interfaces and Molecular Magnetism"

SYMO 1.1	Mon	9:30–10:00	HSZ 02	Molecular quantum spintronics with single-molecule magnets — ●WOLFGANG WERNSDORFER
SYMO 1.2	Mon	10:00–10:30	HSZ 02	EPR Studies of Rare-Earth Molecular Nanomagnets — ●STEPHEN HILL, SANHITA GHOSH, DORSA KOMIJANI, SALVADOR CARDONA-SERRA, JOSE-JAIME BALDOVI, YAN DUAN, ALEJANDRO GAITA-ARINO, EUGENIO CORONADO

SYMO 1.3	Mon	10:45–11:15	HSZ 02	On-surface magnetochemistry of spin-bearing metalorganic molecules — ●PETER M. OPPENEER, KARTICK TARAFDER, EHESAN ALI, NIRMALYA BALLAV, CHRISTIAN WÄCKERLIN, THOMAS A. JUNG
SYMO 1.4	Mon	11:15–11:45	HSZ 02	Interfacing single-molecule magnets with metals — ●ANDREA CORNIA, VALERIA LANZILOTTO, LUIGI MALAVOLTI, MATTEO MANNINI, MAURO PERFETTI, LUCA RIGAMONTI, ROBERTA SESSOLI
SYMO 1.5	Mon	11:45–12:15	HSZ 02	Linking magnetic molecules to themselves, to others and to surfaces — ●RICHARD WINPENNY

Focus Session “New trends in Molecular Magnetism”

MA 8.1	Mon	15:00–15:30	HSZ 04	Spin dynamics in Molecular Nanomagnets — ●STEFANO CARRETTA
MA 8.2	Mon	15:30–16:00	HSZ 04	Exchange interaction in lanthanides — ●LIVIU CHIBOTARU, LIVIU UNGUR, NAOYA IWAHARA, VEACESLAV VIERU
MA 8.3	Mon	16:00–16:30	HSZ 04	Cool molecules — ●MARCO EVANGELISTI
MA 8.4	Mon	16:30–17:00	HSZ 04	Bulk and submonolayer studies of novel single-ion molecular magnets — ●JAN DREISER
MA 8.5	Mon	17:00–17:30	HSZ 04	When Organic Materials Interact with Ferromagnetic Surfaces: A First-Principles Perspective — ●NICOLAE ATODIRESEI

Focus Session “Spin-Orbit Torque at Surfaces and Interfaces”

MA 31.1	Wed	15:00–15:30	BEY 118	Magnetization switching and spin-orbit torques in AlO_x/Co/Pt and MgO/CoFeB/Ta layers — ●PIETRO GAMBARDELLA
MA 31.2	Wed	15:30–16:00	BEY 118	Recent Theoretical Progress in Spin-orbit Torques — ●AURELIEN MANCHON
MA 31.3	Wed	16:00–16:30	BEY 118	Domain-wall depinning governed by the spin Hall effect — ●REINOUD LAVRIJSEN, BERT KOOPMANS, HENK SWAGTEN, ELENA MURE, JEROEN FRANKEN, PASCAL HAAZEN
MA 31.4	Wed	16:45–17:15	BEY 118	The Spin Hall Effect and Spin Orbit Torques in Ferromagnetic/Normal Metal Nanostructures — ●ROBERT BUHRMAN
MA 31.5	Wed	17:15–17:45	BEY 118	Spin-orbit torques from first principles — ●FRANK FREIMUTH

Focus Session “Chiral domain walls in ultrathin films”

MA 24.1	Wed	9:30–10:00	BEY 118	On the rediscovery of the Dzyaloshinskii-Moriya interaction—A review — ●MATTHIAS BODE
MA 24.2	Wed	10:00–10:30	BEY 118	Chiral Magnetic Domain Wall Structure in Epitaxial Multilayers — ●YIZHENG WU, GONG CHEN, JIE ZHU, ALPHA T. N'DIAYE, TIANPING MA, HEEYOUNG KWON, CHANGYEON WON, ANDREAS. K. SCHMID
MA 24.3	Wed	10:45–11:15	BEY 118	'Dzyaloshinskii domain walls' in ultrathin magnetic films — ●ANDRÉ THIAVILLE, STANISLAS ROHART, EMILIE JUÉ, OLIVIER BOULLE, VINCENT CROS, ALBERT FERT, STEFANIA PIZZINI, JAN VOGEL
MA 24.4	Wed	11:15–11:45	BEY 118	Current-driven dynamics of chiral ferromagnetic domain walls — ●GEOFFREY BEACH
MA 24.5	Wed	11:45–12:15	BEY 118	Phenomenology of current-induced spin-orbit torques — ●KJETIL M. D. HALS

Focus Session “Unconventional Spin Structures (jointly with DS)”

MA 39.1	Thu	9:30–10:00	BEY 118	Topological Effects in Nanomagnetism - From Perpendicular Recording to Monopoles — ●HANS-BENJAMIN BRAUN
MA 39.2	Thu	10:00–10:30	BEY 118	Topology and Origin of Effective Spin Meron Pairs in Ferromagnetic Multilayer Elements — ●SEBASTIAN WINTZ

MA 39.3	Thu	10:30–11:00	BEY 118	Symmetry breaking in the formation of magnetic vortex states in a permalloy nanodisk — ●PETER FISCHER, MI-YOUNG IM, KEISUKE YAMADA, TOMONORI SATO, SHINYA KASAI, YOSHINOBU NAKATANI, TERUO ONO
MA 39.4	Thu	11:15–11:45	BEY 118	Commensurability and chaos in magnetic vortex oscillations — ●JOO-VON KIM, SÉBASTIEN PETIT-WATELOT, ANTONIO RUOTOLO, RUBÉN OTXOA, KARIM BOUZEHOANE, JULIE GROLLIER, ARNE VANSTEENKISTE, BEN VAN DE WIELE, VINCENT CROS, THIBAUT DEVOLDER
MA 39.5	Thu	11:45–12:15	BEY 118	Dynamic ordering of vortex cores in interacting mesomagnets — ●VALENTYN NOVOSAD

Sessions

MA 1.1–1.4	Sun	16:00–18:35	HSZ 403	Tutorial: Energy materials
MA 2.1–2.6	Mon	9:30–11:00	HSZ 401	Magnetic Clusters
MA 3.1–3.9	Mon	9:30–11:45	HSZ 403	Spin Hall Effects
MA 4.1–4.10	Mon	9:30–12:00	BEY 118	Magnetic Heuslers, Half-metals and Oxides I (with TT)
MA 5.1–5.11	Mon	9:30–12:30	POT 051	Topological insulators: mostly structure and electronic structure (with HL/O/TT)
MA 6.1–6.8	Mon	10:30–13:15	TRE Ma	Focussed Session: Frontiers of Electronic Structure Theory - Non-equilibrium Phenomena at the Nano-scale (with O)
MA 7	Mon	12:30–14:00	HSZ 04	ThyssenKrupp Electrical Steel Dissertationspreis der AG Magnetismus
MA 8.1–8.5	Mon	15:00–17:30	HSZ 04	Focus Session: New trends in Molecular Magnetism (with O/TT)
MA 9.1–9.11	Mon	15:00–18:00	HSZ 401	Magnetic Nanoparticles
MA 10.1–10.11	Mon	15:00–18:00	HSZ 403	Spin-dependent Transport Phenomena
MA 11.1–11.12	Mon	15:00–18:45	BEY 118	Magnetic Heuslers, Half-metals and Oxides II (with TT)
MA 12.1–12.8	Mon	15:45–17:45	POT 081	Topological insulators: mostly interaction with magnetic fields (with HL/O/TT)
MA 13.1–13.15	Tue	9:30–15:45	HSZ 04	PhD Symposium: Magnon Plasmonics (with jDPG)
MA 14.1–14.10	Tue	9:30–12:15	HSZ 401	Bio- and Molecular Magnetism
MA 15.1–15.14	Tue	9:30–13:15	HSZ 403	Spin structures and Magnetic Phase Transitions
MA 16.1–16.12	Tue	9:30–12:45	BEY 118	Multiferroics I (jointly with DF, DS, KR, TT)
MA 17.1–17.9	Tue	13:45–16:00	HSZ 401	Spintronics (jointly with HL,TT)
MA 18.1–18.7	Tue	14:00–15:45	HSZ 403	Magnetic Coupling Phenomena
MA 19.1–19.49	Tue	13:00–15:30	P1	Poster I
MA 20.1–20.2	Tue	15:00–16:00	BEY 118	Magnetic Adatoms on Surfaces (with O)
MA 21.1–21.13	Wed	9:30–13:00	HSZ 04	Multiferroics II (jointly with DF, DS, KR, TT)
MA 22.1–22.12	Wed	9:30–12:45	HSZ 401	Magnetization Dynamics I
MA 23.1–23.10	Wed	9:30–12:15	HSZ 403	Micro- and Nanostructured Magnetic Materials
MA 24.1–24.5	Wed	9:30–12:15	BEY 118	Focus Session: Chiral domain walls in ultrathin films
MA 25.1–25.10	Wed	9:30–12:15	POT 051	Graphene: Transport (with DY/DS/O/TT)
MA 26.1–26.7	Wed	9:30–11:15	POT 151	Topological insulators: Theory (with HL/O/TT)
MA 27.1–27.7	Wed	10:15–12:00	POT 006	Spintronics 1 (with HL/TT)
MA 28.1–28.10	Wed	15:00–17:45	HSZ 04	Magnetic Materials I
MA 29.1–29.12	Wed	15:00–18:15	HSZ 401	Magnetization Dynamics II
MA 30.1–30.11	Wed	15:00–18:00	HSZ 403	Experimental methods and magnetic imaging
MA 31.1–31.5	Wed	15:00–17:45	BEY 118	Focus Session: Spin-Orbit Torque at Surfaces and Interfaces
MA 32.1–32.1	Wed	15:00–15:45	GER 37	Invited Talk - Heidemarie Schmidt (Joint Session with DF, HL, DS, KR)
MA 33.1–33.6	Wed	15:00–16:30	POT 006	Quantum information systems I (with HL/TT)
MA 34.1–34.12	Wed	17:00–20:00	P1	Posters: Graphene (with DY/DS/HL/O/TT)
MA 35	Wed	18:15–19:45	HSZ 04	Mitgliederversammlung des Fachverbandes Magnetismus (MA)
MA 36.1–36.10	Thu	9:30–12:15	HSZ 04	Spincaloric Transport II (jointly with TT)
MA 37.1–37.10	Thu	9:30–12:15	HSZ 401	Spin Torque and Spin Excitations I
MA 38.1–38.10	Thu	9:30–12:15	HSZ 403	Magnetic Materials II
MA 39.1–39.6	Thu	9:30–12:45	BEY 118	Focus Session: Unconventional Spin Structures (jointly with DS)

MA 40.1–40.9	Thu	10:00–12:30	POT 081	Graphene-like materials: Silicene, MoS₂ and relatives (with DY/DS/HL/O/TT)
MA 41.1–41.9	Thu	10:00–12:15	POT 151	Spintronics 2 (with HL/TT)
MA 42.1–42.12	Thu	15:00–18:15	HSZ 04	Magnetic Materials III
MA 43.1–43.12	Thu	15:00–18:15	HSZ 401	Magnetization Dynamics III
MA 44.1–44.6	Thu	15:00–16:30	HSZ 403	Spin Torque and Spin Excitations II
MA 45.1–45.13	Thu	15:00–18:30	BEY 118	Spin Structures at Surfaces and in thin films I (Skyrmions)
MA 46.1–46.11	Thu	15:00–18:00	POT 081	Graphene: Spintronics, transistors, and sensors (with DY/DS/HL/O/TT)
MA 47.1–47.8	Thu	16:45–18:45	HSZ 403	Spincaloric Transport I (jointly with TT)
MA 48.1–48.7	Thu	17:00–20:00	P1	Poster: Spintronics (with TT)
MA 49.1–49.12	Thu	17:00–20:00	P1	Poster: Topological insulators (with O,TT)
MA 50.1–50.9	Fri	9:30–12:00	HSZ 04	Topological Insulators (jointly with DS,HL,O,TT)
MA 51.1–51.10	Fri	9:30–12:00	HSZ 401	Electron Theory of Magnetism
MA 52.1–52.8	Fri	9:30–11:30	HSZ 403	Magnetic Materials IV
MA 53.1–53.10	Fri	9:30–12:00	BEY 118	Spin Structures at Surfaces and in thin films II
MA 54.1–54.6	Fri	9:30–11:00	POT 081	Graphene: Bi- and multi-layers (with DY/DS/HL/O/TT)
MA 55.1–55.113	Fri	10:30–13:30	P2	Poster II
MA 56.1–56.7	Fri	11:15–13:00	POT 081	Graphene: Interaction with the substrate (with DY/DS/O/TT)