

Magnetism Division Fachverband Magnetismus (MA)

Gernot Güntherodt (Vors. FV Magnetismus und AG Magnetismus)
Physikalisches Institut IIA, RWTH Aachen University
Physikzentrum RWTH-Melaten
52074 Aachen
gernot.guentherodt@physik.rwth-aachen.de

Overview of Invited Talks and Sessions

(lecture rooms HSZ 103, HSZ 401, HSZ 403, HSZ 04 and CHE 184; Poster P2)

Invited Talks

MA 1.1	Mon	10:15–10:45	HSZ 04	Emergent magnetic monopoles and associated Dirac strings in artificial kagome spin ice — ●LAURA HEYDERMAN
MA 6.1	Mon	14:00–14:30	TRE Ma	Quantifying Spin Hall Effects in Nonmagnetic Metals — ●AXEL HOFFMANN
MA 16.1	Tue	10:15–10:45	HSZ 04	Search for a permanent electric dipole moment of an electron: Multiferroics bring us a step closer — ●MARJANA LEŽAIĆ
MA 26.1	Wed	10:15–10:45	HSZ 04	Magnetic light-matter interaction at highest frequencies — ●TOBIAS KAMPFRATH, ALEXANDER SELL, MATTEO BURRESI, DRIES VAN OOSTEN, MANFRED FIEBIG, SUSUMU NODA, MARTIN WOLF, ALFRED LEITENSTORFER, KOBUS KUIPERS, RUPERT HUBER
MA 35.1	Wed	14:00–14:30	HSZ 04	Skyrmion crystals and topological transport phenomena — ●YOSHINORI TOKURA
MA 35.2	Wed	14:30–15:00	HSZ 04	Discovery of an atomic-scale skyrmion lattice in an ultrathin magnet: Fe/Ir(111) — ●S. HEINZE, K. VON BERGMANN, M. MENZEL, J. BREDE, A. KUBETZKA, R. WIESENDANGER, G. BIHLMAYER, S. BLÜGEL
MA 35.3	Wed	15:00–15:30	HSZ 04	Skyrmion states in noncentrosymmetric magnets — ●ALEXEI N. BOGDANOV, ANDREI A. LEONOV, ULRICH K. RÖSSLER
MA 35.4	Wed	15:30–16:00	HSZ 04	Complex Magnetic Phase Diagram of the cubic Helimagnet FeGe — ●HERIBERT WILHELM
MA 35.5	Wed	16:00–16:30	HSZ 04	Magnetoelectric effects in non-collinear magnets — ●MAXIM MOSTOVOY
MA 47.1	Thu	10:15–10:45	HSZ 04	Perpendicular 40 nm MgO-CoFeB Magnetic Tunnel Junction — ●HIDEO OHNO
MA 53.1	Thu	14:00–14:30	HSZ 04	From nanolithography to energy assisted writing - what is the limit to magnetic recording? — ●BRUCE TERRIS
MA 53.2	Thu	14:30–15:00	HSZ 04	29.5 Gb/in² Recording Areal Density on Barium Ferrite Tape — ●MARK LANTZ
MA 61.1	Fri	10:15–10:45	HSZ 04	Spin-dependent quantum interference within a single magnetic nanostructure — ●DIRK SANDER, HIROFUMI OKA, PAVEL IGNATIEV, SEBASTIAN WEDEKIND, GUILLEMIN RODARY, LARISSA NIEBERGALL, VALERI STEPANYUK, JÜRGEN KIRSCHNER

Invited and Topical Talks of the Focus Session "Nanoparticles, Nanocrystals and Colloids" (jointly with BP, CPP, HL)

Organization: Oleg Petravic (Ruhr-Universität Bochum)

MA 2.1	Mon	10:15–10:45	HSZ 103	Magnetic nanoparticles: fundamentals and applications — ●ANDREAS HÜTTEN
MA 2.2	Mon	10:45–11:15	HSZ 103	Directing the Self-Assembly of Nanoparticles — ●ALEXANDER BÖKER
MA 2.3	Mon	11:15–11:45	HSZ 103	Magnetic Fluids - Properties and Applications — ●STEFAN ODENBACH
MA 2.4	Mon	12:00–12:30	HSZ 103	Semiconductor nanocrystals — ●ANDREY ROGACH
MA 2.5	Mon	12:30–13:00	HSZ 103	Ion and pH sensing with colloidal nanoparticles: tailoring hybrid FRET-based nanobiosensors — ●MARTIN OHEIM

Invited and Topical Talks of the Focus Session "X-ray absorption spectra - state of the art of theory and experiment" (jointly with DS, HL, MM, O)

Organization: Andreas Ney (Universität Duisburg-Essen)

MA 57.1	Thu	15:15–15:45	HSZ 403	Simulations of X-ray Spectra using FEFF9 and OCEAN — ●JOHN REHR
MA 57.2	Thu	15:45–16:15	HSZ 403	Polarisation dependent X-ray spectroscopy — ●ANDREI ROGALEV, FABRICE WILHELM, JOSE GOULON
MA 57.3	Thu	16:15–16:45	HSZ 403	Theoretical description of X-ray absorption in correlated transition metal systems — ●HUBERT EBERT, JAN MINAR, ONDREJ SIPR
MA 57.4	Thu	17:00–17:30	HSZ 403	Paramagnetic molecules on metal surfaces: prototypes for spin-hybrid systems — ●HEIKO WENDE
MA 57.5	Thu	17:30–18:00	HSZ 403	Can Carbon Be Ferromagnetic? — ●HENDRIK OHLDAG, ELKE ARENHOLZ, PABLO ESQUINAZI, DANIEL SPEMANN, ANNETTE SETZER, MARTIN ROTHERMEL, TILMAN BUTZ

Invited Talks of the Joint Symposium "Spin Caloric Transport" (SKM-SYST)

Organization: Christian Back (Universität Regensburg), Dirk Grundler (TU München), Sebastian Gönnerwein (Walther-Meißner-Institut Garching)

See SKM-SYST for the full program of the symposium.

SKM-SYST 1.1	Mon	14:30–15:00	TRE Ma	On the theory of the spin wave Seebeck effect — ●GERRIT BAUER
SKM-SYST 1.2	Mon	15:00–15:30	TRE Ma	Spin Seebeck effect in metals and insulators — ●KEN-ICHI UCHIDA, EIJI SAITOH
SKM-SYST 1.3	Mon	15:30–16:00	TRE Ma	Spin-Seebeck effect: Local nature of thermally induced spin currents in GaMnAs — ●ROBERTO MYERS
SKM-SYST 1.4	Mon	16:00–16:30	TRE Ma	Heat conduction of low-dimensional quantum magnets — ●CHRISTIAN HESS, NIKOLAI HLUBEK, PATRICK RIBEIRO, BERND BÜCHNER, SURJEET SINGH, ROMUALD SAINT-MARTIN, ALEXANDRE REVCOLEVSCHI
SKM-SYST 1.5	Mon	16:30–17:00	TRE Ma	Evidence of spin polarized heat current acting on magnetization — ●JEAN-PHILIPPE ANSERMET

Invited Talks of the Joint Symposium "Topological Insulators" (SKM-SYTI)

Organization: Werner Hanke (Universität Würzburg), Jürgen Kübler (TH Darmstadt), Christian Pfeleiderer (TU München)

See SKM-SYTI for the full program of the symposium.

SKM-SYTI 1.1	Wed	10:30–11:00	TRE Ma	Topological insulators and topological superconductors — ●SHOUCHENG ZHANG
SKM-SYTI 1.2	Wed	11:00–11:30	TRE Ma	Dirac Fermions in HgTe Quantum Wells — ●LAURENS MOLENKAMP
SKM-SYTI 1.3	Wed	11:30–12:00	TRE Ma	Interaction, disorder, and quantum criticality in Z_2 topological insulators — ●ALEXANDER MIRLIN
SKM-SYTI 1.4	Wed	12:00–12:30	TRE Ma	Disorder and Interactions in Topological Insulators — ●ALLAN H. MACDONALD
SKM-SYTI 1.5	Wed	12:30–13:00	TRE Ma	Tunable multifunctional topological insulators in ternary Heusler and related compounds — ●CLAUDIA FELSER, STANISLAV CHADOV, LUKAS MÜCHLER, JÜRGEN KÜBLER, SHOU CHENG ZHANG, XIAOLIANG QI, HAI-JUN ZHANG

Invited Talks of the Joint Symposium "Diffusionless Transformations in Magnetic and Ferroelectric Bulk and Thin Films" (SKM-SYDT)

Organization: Sebastian Fähler (IFW Dresden), Dietrich Hesse (MPI Halle), Eberhard Wassermann (Universität Duisburg-Essen)

See SKM-SYDT for the full program of the Symposium.

SKM-SYDT 1.1	Thu	10:30–11:00	TRE Ma	Domain boundaries as active elements in multiferroics and martensites: steps towards Domain Boundary Engineering — ●EKHARD K.H. SALJE
SKM-SYDT 1.2	Thu	11:00–11:30	TRE Ma	Intermediate Phases in Perovskite Solid Solutions — ●IAN REANEY, CLIVE RANDALL, DAVID WOODWARD
SKM-SYDT 1.3	Thu	11:30–12:00	TRE Ma	Adaptive martensite and giant strain effects in multiferroics — ●ULRICH K. RÖSSLER
SKM-SYDT 1.4	Thu	12:00–12:30	TRE Ma	Nature of magnetic coupling in Ni-Mn-based martensitic Heusler alloys — ●MEHMET ACET, SEDA AKSOY, EBERHARD F. WASSERMANN, LLUIS MANOSA, ANTONI PLANES
SKM-SYDT 1.5	Thu	12:30–13:00	TRE Ma	Orthorhombic to tetragonal transition of SrRuO₃ layers in Pr_{0.7}Ca_{0.3}MnO₃/SrRuO₃ superlattices — ●MICHAEL ZIESE, FRANCIS BERN, IONELA VREJOIU, ECKHARD PIPPEL, ELIZAVETA NIKULINA

Sessions

MA 1.1–1.1	Mon	10:15–10:45	HSZ 04	Micro- and Nanostructured Magnetic Materials I/ Spin Structures - Invited Talk
MA 2.1–2.5	Mon	10:15–13:00	HSZ 103	Focus Session "Nanoparticles, Nanocrystals and Colloids" (jointly with BP, CPP, HL), Organization: Oleg Petracic (Ruhr-Universität Bochum)
MA 3.1–3.8	Mon	11:00–13:00	HSZ 401	Bio- and Molecular Magnetism
MA 4.1–4.9	Mon	11:00–13:15	HSZ 403	Magnetic Coupling Phenomena/ Exchange Bias
MA 5.1–5.7	Mon	11:00–12:45	HSZ 04	Spincaloric Transport
MA 6.1–6.1	Mon	14:00–14:30	TRE Ma	Spin Pumping/ Spin Hall Effects - Invited Talk
MA 7.1–7.5	Mon	14:30–17:00	TRE Ma	SKM-SYST: Spin Caloric Transport (jointly with TT, HL)
MA 8.1–8.8	Mon	14:45–17:00	HSZ 103	Magnetic Particles/ Clusters I
MA 9.1–9.8	Mon	14:45–17:00	HSZ 401	Magnetic Materials I
MA 10.1–10.8	Mon	14:45–17:00	HSZ 403	Magnetization Dynamics I
MA 11.1–11.8	Mon	14:45–17:00	HSZ 04	Multiferroics I: Structure and Phase Transitions (jointly with DF, DS, KR, TT), Program coordination: I. Mertig, M. Fiebig
MA 12.1–12.9	Mon	17:00–19:15	HSZ 103	Magnetic Particles/ Clusters II
MA 13.1–13.8	Mon	17:00–19:00	HSZ 401	Magnetic Materials II
MA 14.1–14.8	Mon	17:00–19:00	HSZ 403	Magnetization Dynamics II
MA 15.1–15.7	Mon	17:00–18:45	HSZ 04	Multiferroics II: Strain and Composites (jointly with DF, DS, KR, TT)
MA 16.1–16.1	Tue	10:15–10:45	HSZ 04	Multiferroics III: Exotic Properties - Invited Talk (jointly with DF, DS, KR, TT)
MA 17.1–17.4	Tue	10:30–12:30	TRE Ma	SKM Dissertation Prize
MA 18.1–18.6	Tue	10:45–12:15	HSZ 04	Multiferroics IV: Exotic Properties and Dynamics (jointly with DF, DS, KR, TT)
MA 19.1–19.111	Tue	10:45–13:00	P2	Poster I (Bio- and Molecular Magnetism/ Magnetic Particles and Clusters/ Micro- and Nanostructured Magnetic Materials/ Magnetic Materials/ Multiferroics/ Magnetic Shape Memory Alloys/ Electron Theory of Magnetism/ Spincaloric Transport/ Magnetic Coupling and Exchange Bias/ Magnetization Dynamics/ Micromagnetism and Computational Magnetism)
MA 20.1–20.7	Tue	11:00–12:45	HSZ 103	Electron Theory of Magnetism
MA 21.1–21.7	Tue	11:00–12:45	HSZ 401	Bio- and Molecular Magnetism II
MA 22.1–22.8	Tue	11:00–13:00	HSZ 403	Magnetic Measurement Methods
MA 23.1–23.3	Tue	12:15–13:00	HSZ 04	Magnetic Shape Memory Alloys I (jointly with MM)
MA 24	Tue	13:30–15:15	HSZ 04	ThyssenKrupp Dissertations-Preis 2011 der AG Magnetismus
MA 25.1–25.6	Tue	13:30–15:00	HSZ 103	Magnetic Shape Memory Alloys II (jointly with MM)
MA 26.1–26.1	Wed	10:15–10:45	HSZ 04	High Frequency Magnetic Light-Matter Interaction - Invited Talk
MA 27.1–27.5	Wed	10:30–13:00	TRE Ma	SKM-SYTI: Topological Insulators (jointly with TT, HL)

MA 28.1–28.1	Wed	10:15–11:00	GER 37	Spins in Organic Materials (jointly with DS) - Invited Talk
MA 29.1–29.9	Wed	11:00–13:15	HSZ 103	Micro- and Nanostructured Magnetic Materials II
MA 30.1–30.9	Wed	11:00–13:15	HSZ 401	Magnetic Semiconductors I
MA 31.1–31.7	Wed	11:00–12:45	HSZ 403	Magnetization Dynamics III
MA 32.1–32.8	Wed	11:00–13:00	HSZ 04	Magnetic Thin Films I
MA 33.1–33.5	Wed	11:00–13:00	GER 37	Focus Session "Spins in Organic Materials I" (jointly with DS)
MA 34.1–34.9	Wed	11:15–13:30	CHE 184	Surface magnetism I (jointly with O)
MA 35.1–35.5	Wed	14:00–16:30	HSZ 04	Spin Structures/ Skyrmions (jointly with TT) - Invited Talks
MA 36.1–36.8	Wed	14:45–16:45	HSZ 103	Micro- and Nanostructured Magnetic Materials III
MA 37.1–37.8	Wed	14:45–16:45	HSZ 401	Magnetic Semiconductors II
MA 38.1–38.10	Wed	14:45–17:15	HSZ 403	Magnetization Dynamics IV
MA 39.1–39.1	Wed	15:00–15:45	GER 37	Spins in Organic Materials (jointly with DS) - Invited Talk
MA 40.1–40.7	Wed	15:00–16:45	CHE 184	Surface magnetism II (jointly with O)
MA 41.1–41.3	Wed	15:45–16:45	GER 37	Focus Session "Spins in Organic Materials II" (jointly with DS)
MA 42.1–42.10	Wed	16:45–19:15	HSZ 04	Topological Insulators (jointly with TT, HL)
MA 43.1–43.8	Wed	17:00–19:00	HSZ 103	Micro- and Nanostructured Magnetic Materials IV
MA 44.1–44.9	Wed	17:00–19:15	HSZ 401	Magnetic Half-metals and Oxides I
MA 45.1–45.6	Wed	17:30–19:00	HSZ 403	Micromagnetism/ Computational Magnetics
MA 46.1–46.9	Wed	17:00–19:15	CHE 184	Magnetic Thin Films II
MA 47.1–47.1	Thu	10:15–10:45	HSZ 04	Spintronics I/ Spin-dependent Transport/ Spin Torque - Invited Talk
MA 48.1–48.5	Thu	10:30–13:00	TRE Ma	SKM-SYDT: Diffusionless Transformations in Magnetic and Ferroelectric Bulk and Thin Films (jointly with MM, DS, DF)
MA 49.1–49.9	Thu	10:45–13:00	HSZ 04	Spin-dependent Transport/ Spin Torque
MA 50.1–50.8	Thu	11:00–13:00	HSZ 103	Surface magnetism III
MA 51.1–51.9	Thu	11:00–13:15	HSZ 401	Magnetic Half-metals and Oxides II
MA 52.1–52.9	Thu	11:00–13:15	HSZ 403	Magnetic Thin Films III
MA 53.1–53.2	Thu	14:00–15:00	HSZ 04	Magnetic Storage Media, Applications - Invited Talks
MA 54.1–54.8	Thu	15:00–17:00	HSZ 04	Spin Excitations I
MA 55.1–55.8	Thu	15:15–17:15	HSZ 103	Surface Magnetism IV
MA 56.1–56.7	Thu	15:15–17:00	HSZ 401	Graphene (jointly with DY, DS, HL, O, TT)
MA 57.1–57.8	Thu	15:15–19:00	HSZ 403	Focus Session "X-ray absorption spectra - state of the art of theory and experiment" (jointly with DS, HL, MM, O), Organization: Andreas Ney (Universität Duisburg-Essen)
MA 58.1–58.8	Thu	17:15–19:15	HSZ 401	Spintronics II (jointly with TT, HL)
MA 59.1–59.8	Thu	17:15–19:15	HSZ 04	Spin Excitations II/ Spin Scattering
MA 60.1–60.7	Thu	17:30–19:15	HSZ 103	Spin Structures and Magnetic Phase Transitions
MA 61.1–61.1	Fri	10:15–10:45	HSZ 04	Surface Magnetism V - Invited Talk
MA 62.1–62.5	Fri	10:45–12:00	HSZ 04	Magnetic Imaging
MA 63.1–63.99	Fri	11:00–14:00	P2	Poster II (Surface Magnetism/ Magnetic Imaging/ Topological Insulators/ Spin Structures and Magnetic Phase Transitions/ Graphene/ Magnetic Thin Films/ Magnetic Semiconductors/ Magnetic Half-metals and Oxides/ Spin-dependent Transport/ Spin Excitations and Spin Torque/ Spin Injection and Spin Currents in Heterostructures/ Spintronics/ Magnetic Storage and Applications)

Mitglieder-Versammlung des FV Magnetismus

Mittwoch, 16.03.2011 19:00–20:00 HSZ 04

- Bericht des Vorsitzenden
- Aussprache
- Verschiedenes