

## Magnetism Division Fachverband Magnetismus (MA)

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### Overview of Invited and Topical Talks, and Sessions

(lecture rooms H0112, H1012, EB202, EB301, and BH243; Poster A, Galerie 2. OG (100) )

#### Keynote Talk related to MA

PV XIV Wed 14:00–14:45 H 0105 **A Comprehensive Study of Exchange Bias: Towards a universal explanation.** — ●IVAN SCHULLER

#### Invited and Topical Talks

(except focused sessions, see below for the focused session program)

|         |     |             |        |  |
|---------|-----|-------------|--------|--|
| MA 2.1  | Mon | 9:30–10:00  | EB 301 | <b>Reversible electrical switching of spin polarization in multiferroic tunnel junctions</b> — ●MARIN ALEXE, DANIEL PANTEL, SILVANA GÖTZE, DIETRICH HESSE  |
| MA 9.1  | Mon | 15:00–15:30 | EB 301 | <b>Anisotropic conductance of ferroelectric domain walls</b> — ●DENNIS MEIER   |
| MA 15.1 | Tue | 9:30–10:00  | H 1012 | <b>Probing the timescale of exchange interaction in a ferromagnetic alloy</b> — ●STEFAN MATHIAS  |
| MA 23.1 | Wed | 9:30–10:00  | H 1012 | <b>Uncovering the Ultrafast Angular Momentum Transfer on the Nanoscale in GdFeCo</b> — ●A. SCHERZ, C. GRAVES, A.H. REID, B. WU, T. WANG, S. DE JONG, K. VAHAPLAR, I. RADU, M. MESSERSCHMIDT, R. COFFEE, M. BIONTA, R. HARTMANN, N. KIMMEL, S. EPP, A. TSUKAMOTO, J. TURNER, W.F. SCHLOTTER, Y. ACREMANN, A. KIMEL, A. KIRILYUK, J. STÖHR, T. RASING, H. DÜRR |
| MA 33.1 | Wed | 15:00–15:30 | EB 202 | <b>Exchange bias and domain evolution at 10 nm scales</b> — ●HANS J. HUG, MIGUEL A. MARIONI, SARA ROMER, SEVIL OEZER, NIRAJ JOSHI  |
| MA 35.1 | Wed | 15:00–15:30 | H 0112 | <b>Heusler compounds: theory and experiments on their electronic structure.</b> — ●G. H. FECHER  |
| MA 36.1 | Thu | 9:30–10:00  | H 1012 | <b>Tetragonal Heusler-like alloy films with perpendicular magnetic anisotropy for spin torque applications</b> — ●SHIGEMI MIZUKAMI, TERUNOBU MIYAZAKI  |
| MA 36.2 | Thu | 10:00–10:30 | H 1012 | <b>The role of Heusler alloys in various applications</b> — ●ANDREAS HÜTTEN  |
| MA 43.1 | Thu | 15:00–15:30 | H 1012 | <b>Spin transport in graphene</b> — ●BERND BESCHOTEN   |
| MA 43.2 | Thu | 15:30–16:00 | H 1012 | <b>Long spin relaxation times in epitaxial graphene on SiC(0001)</b> — ●THOMAS MAASSEN, JAN JASPER VAN DEN BERG, NATASJA IJBEMA, FELIX FROMM, THOMAS SEYLLER, ROSITSA YAKIMOVA, BART JAN VAN WEES  |

#### Invited talks of the joint symposium “Tailoring magnetism in L1<sub>0</sub> ordered nanostructures: Perspectives for magnetic recording beyond 1 Tb/in<sup>2</sup>” (SYTM)

Organization: Helmut Kronmüller (MPI-IS Stuttgart), Rainer Birringer (Universität Saarbrücken), Jürgen Fassbender (HZ Dresden-Rossendorf)

See SYTM for the full program of the symposium.

SYTM 1.1 Mon 9:30–10:00 H 0105 **Thermally Assisted Magnetic Recording at 620 Gb/in<sup>2</sup> using Granular L1<sub>0</sub> FeCuPtAg-X Media** — ●D. WELLER, O. MOSENDZ, S. PISANA, T. SANTOS, G. PARKER, J. REINER, B. C. STIPE

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|----------|-----|-------------|--------|--|
| SYTM 1.2 | Mon | 10:00–10:30 | H 0105 | <b>Large-area hard magnetic L1<sub>0</sub>-FePt and composite L1<sub>0</sub>-FePt based nanopatterns</b> — ●DAGMAR GOLL, THOMAS BUBLAT             |
| SYTM 1.3 | Mon | 10:30–11:00 | H 0105 | <b>Electric field control of magnetic exchange coupling in FePt / Fe-O thin films</b> — ●KARIN LEISTNER  |
| SYTM 1.4 | Mon | 11:00–11:30 | H 0105 | <b>FePt-based exchange coupled composite media</b> — ●MANFRED ALBRECHT   |
| SYTM 1.5 | Mon | 11:30–12:00 | H 0105 | <b>Optimization of FePt films for recording applications by micromagnetic modeling</b> — ●JOSEF FIDLER, JEHYUN LEE, BARBARA DYMERSKA, DIETER SUESS |

### Topical Talks of the Joint Session “FePt Nanoparticles” (jointly with DS, MM)

Organization: Michael Farle (Univ. Duisburg-Essen)

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|--------|-----|-------------|--------|---|
| MA 7.1 | Mon | 15:00–15:30 | EB 202 | <b>Prediction of morphology-, composition- and size-related trends in FePt nanoparticles from first principles</b> — ●MARKUS ERNST GRUNER   |
| MA 7.2 | Mon | 15:30–16:00 | EB 202 | <b>Coulomb Blockade effects in FePt nanoparticles</b> — ●ARTUR ERBE, ULRICH WIESENHÜTTER, DARIUS POHL, BERND RELLINGHAUS, JÜRGEN FASSBENDER   |
| MA 7.3 | Mon | 16:00–16:30 | EB 202 | <b>Pt surface segregation and its impact on magnetism in FePt nanoparticles</b> — ●ULF WIEDWALD   |
| MA 7.4 | Mon | 16:30–17:00 | EB 202 | <b>Understanding the Metal-Carbon Interface in FePt terminated carbon nanotubes</b> — ●DARIUS POHL, FRANZISKA SCHÄFFEL, CHRISTINE TÄSCHNER, MARC H. RÜMMELI, CHRISTIAN KISIELOWSKI, LUDWIG SCHULTZ, BERND RELLINGHAUS |
| MA 7.5 | Mon | 17:00–17:30 | EB 202 | <b>Atomistic characterisation of ultrahard nanomagnets</b> — ●CAROLIN ANTONIAK  |

### Invited and Topical Talks of the Focus Session “Topological Transport in Systems with broken Time Inversion Symmetry”

Organization: Stefan Blügel (FZ Jülich)

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|---------|-----|-------------|--------|---|
| MA 10.1 | Mon | 15:00–15:30 | H 1012 | <b>Theory of the anomalous Hall effect: from the metallic fully ab-initio studies to the insulating hopping systems</b> — ●JAIRO SINOVA |
| MA 10.2 | Mon | 15:30–16:00 | H 1012 | <b>Engineering topological transport via control of the spin-orbit interaction</b> — ●YURIY MOKROUSOV                                   |
| MA 10.3 | Mon | 16:00–16:30 | H 1012 | <b>Topological phases with broken time-reversal symmetry in pyrochlore iridates</b> — ●SHIGEKI ONODA                                    |
| MA 10.4 | Mon | 16:30–17:00 | H 1012 | <b>Topological Hall effects of electrons and magnons</b> — ●YOSHINORI ONOSE, YOSHINORI TOKURA   |

### Invited talks of the joint symposium “100 years of X-ray diffraction: from the Laue-experiment to new frontiers” (SYXD)

Organization: Leonore Wiehl (Universität Frankfurt), Gerhard Grübel (HASYLAB at DESY), Joachim Rädler (LMU München)

See SYXD for the full program of the symposium.

|          |     |             |        |  |
|----------|-----|-------------|--------|--|
| SYXD 1.1 | Mon | 15:00–15:30 | H 0105 | <b>Disputed discovery: The beginnings of X-ray diffraction in crystals</b> — ●MICHAEL ECKERT   |
| SYXD 1.2 | Mon | 15:30–16:00 | H 0105 | <b>Why are quasicrystals quasiperiodic?</b> — ●WALTER STEURER  |
| SYXD 1.3 | Mon | 16:00–16:30 | H 0105 | <b>Coherent Diffraction Imaging with Free-Electron Lasers</b> — ●MASSIMO ALTARELLI   |
| SYXD 1.4 | Mon | 16:30–17:00 | H 0105 | <b>X-ray free-electron lasers - emerging opportunities for structural biology</b> — ●ILME SCHLICHTING                                  |
| SYXD 1.5 | Mon | 17:00–17:30 | H 0105 | <b>Structure analysis by x-ray diffraction and x-ray imaging: beyond crystals, beyond averages, and beyond modeling</b> — ●TIM SALDITT |

### Invited talks of the joint symposium “Topological Insulators: Influence of Superconductivity, Magnetism and Extrinsic Spin-Orbit Interaction” (SYTI)

Organization: Oliver Rader (HZ Berlin), Philip Hofmann (Aarhus University, DK), Björn Trauzettel (Univ. Würzburg), Jan Minar (LMU München)

See SYTI for the full program of the symposium.

|          |     |             |        |   |
|----------|-----|-------------|--------|---|
| SYTI 1.1 | Tue | 9:30–10:00  | H 0105 | <b>Search for Majorana fermions in topological insulators</b> — ●CARLO BEENAKKER  |
| SYTI 1.2 | Tue | 10:00–10:30 | H 0105 | <b>Cooper Pairs in Topological Insulator Bi<sub>2</sub>Se<sub>3</sub> Thin Films Induced by Proximity Effect</b> — ●JINFENG JIA |
| SYTI 1.3 | Tue | 10:30–11:00 | H 0105 | <b>Gate tunable normal and superconducting transport through a 3D topological insulator</b> — ●ALBERTO MORPURGO                 |
| SYTI 1.4 | Tue | 11:00–11:30 | H 0105 | <b>Weyl Metal States and Surface Fermi Arcs in Iridates</b> — ●SERGEY SAVRASOV  |
| SYTI 1.5 | Tue | 11:30–12:00 | H 0105 | <b>Engineering a Room-Temperature Quantum Spin Hall State in Graphene via Adatom Deposition</b> — ●MARCEL FRANZ                 |

### Invited and Topical Talks of the Joint Session “Soft X-ray Resonant Scattering for Complex Structural and Magnetic Investigations” (jointly with KR)

Organization: Eberhard Goering (MPI-IS Stuttgart)

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|---------|-----|-------------|--------|---|
| MA 24.1 | Wed | 9:30–10:00  | BH 243 | <b>Soft X-ray Resonant Magnetic Reflectometry of Ferromagnet/Antiferromagnet Interfaces - Probing the Origin of Exchange Bias</b> — ●SEBASTIAN BRÜCK, GISELA SCHÜTZ, KANNAN M. KRISHNAN, EBERHARD GOERING |
| MA 24.2 | Wed | 10:00–10:30 | BH 243 | <b>Orbital reflectometry of nickelate heterostructures</b> — ●EVA BENCKISER   |
| MA 24.3 | Wed | 10:30–11:00 | BH 243 | <b>Manipulating magnetic and electronic ordering phenomena by electric fields and electromagnetic radiation</b> — ●URS STAUB  |
| MA 24.4 | Wed | 11:15–11:45 | BH 243 | <b>Theory of resonant x-ray spectroscopy</b> — ●M. W. HAVERKORT   |
| MA 24.5 | Wed | 11:45–12:15 | BH 243 | <b>Cycloidal Magnetic Order and Ferroelectricity: Manipulation and Imaging with Soft X-Rays</b> — ●EUGEN WESCHKE, ENRICO SCHIERLE, VICTOR SOLTWISCH, DETLEF SCHMITZ, ANDREJ MALJUK, DIMITRI ARGYRIOU      |

### Invited and Topical Talks of the Focus Session “Spin Currents in Magnetic Nanostructures”

Organization: Mathias Kläui (Univ. Mainz)

|         |     |             |        |   |
|---------|-----|-------------|--------|---|
| MA 30.1 | Wed | 15:00–15:30 | EB 301 | <b>Spin transfer in conducting and insulating magnetic systems</b> — ●YAROSLAV TSERKOVNYAK  |
| MA 30.2 | Wed | 15:30–16:00 | EB 301 | <b>Spin pumping with photons and phonons</b> — ●MATHIAS WEILER, FRANZ D. CZESCHKA, HANS HUEBL, FREDERIK S. GOERG, MATTHIAS ALTHAMMER, LUKAS DREHER, MARTIN S. BRANDT, RUDOLF GROSS, SEBASTIAN T. B. GOENNENWEIN |
| MA 30.3 | Wed | 16:00–16:30 | EB 301 | <b>Generation of superdiffusive spin-currents through femtosecond laser excitation of ferromagnetic/non-magnetic hybrid structures</b> — ●PETER M. OPPENEER, MARCO BATTIATO, KAREL CARVA, PABLO MALDONADO       |

### PhD Symposium of the Division of Magnetism and the Young DPG: Spintronics on the way to modern storage technology

The discovery of the giant magnetoresistive effect (GMR) by P. Grünberg and A. Fert in 1988 triggered a scientific and industrial revolution in the field of magnetic storage media. Further development by switching from longitudinal to perpendicular recording in order to increase the storage density brings forth new engineering tasks: The design of materials, which keep magnetization robust to thermal fluctuations (pushing the super-paramagnetic limit), have low saturation magnetization, large coercive force, high Curie temperature and ensure fast read/write processes by possessing a low Gilbert damping constant.

A single femtosecond circularly polarized laser pulse can cause a well-controlled permanent magnetization reversal in materials typically used for data storage. Instant heat transfer makes a system susceptible to the magnetic moment inquired from the next coming circularly polarized pulse. Magnetization is controlled without any help of an external magnetic field. This, in turn, ensures magnetic stability of the neighboring domains as no stray fields affect them.

Along with the benefits of downscaling some significant obstacles such as heat dissipation are encountered. However, this drawback that limits the recording density can be solved in future by magnetically activated local cooling of an individual nanometer-sized area. Pure spin currents resulting from a spin Seebeck effect are not accompanied by a net charge transfer and provide more deep insight into the spin-dependent phenomena (spin-orbit coupling, role of spin in energy transfer, spin-spin interactions). In addition, a spin-polarized current can be utilized for magnetization manipulation, a phenomenon called spin torque transfer. An angular momentum from the polarized current is transferred to the free layer magnetization and switches it at a certain current strength. In contrast to the other magnetization switching mechanisms, the spin torque transfer has the highest potential for increasing memory capacity, atomic accuracy in resolution (spin-polarized STM, for example) and a low heat generation. As an advanced solution it can be implemented in a new state-of-the-art memory generation.

This symposium will provide an introduction into modern spintronics, covering their physical principles and the materials used for magnetic devices. After this introduction the magnetization dynamics and the mechanisms of magnetic switching will be discussed.

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|---------|-----|-------------|--------|--|
| MA 40.1 | Thu | 10:00–10:30 | BH 243 | <b>Magnon Spintronics</b> — •BURKARD HILLEBRANDS, ANDRII CHUMAK, ALEXANDR SERGA, BENJAMIN JUNGFLEISCH  |
| MA 40.2 | Thu | 10:30–11:00 | BH 243 | <b>Functional materials for spintronics, magnetic devices and magnetization dynamics</b> — •GÜNTER REISS, ANDREAS HÜTTEN, JAN SCHMALHORST, MARKUS MEINERT, DANIEL EBKE, ANDY THOMAS, HANS-WERNER SCHUMACHER, MARKUS MÜNZENBERG, SERGEJ DEMOKRITOV              |
| MA 40.3 | Thu | 11:00–11:15 | BH 243 | <b>Revealing the significance of heating in the all-optical switching process</b> — •SABINE ALEBRAND, DANIEL STEIL, ALEXANDER HASSDENTEUFEL, MIRKO CINCHETTI, MARTIN AESCHLIMANN   |
| MA 40.4 | Thu | 11:15–11:30 | BH 243 | <b>Large relaxation times in permalloy reprogrammable magnonic crystals</b> — •RUPERT HUBER, THOMAS SCHWARZE, GEORG DUERR, DIRK GRUNDLER   |
| MA 40.5 | Thu | 11:30–12:00 | BH 243 | <b>Spin wave propagation and excitation, microwave assisted switching and non-linear magnetic resonance</b> — •GEORG WOLTERS DORF, HANS G. BAUER, CHRISTIAN H. BACK  |
| MA 48.1 | Thu | 13:00–13:30 | BH 243 | <b>Ultrafast manipulation of magnetic order</b> — •THEO RASING   |
| MA 48.2 | Thu | 13:30–14:00 | BH 243 | <b>Spin-transfer processes: Magnetic coupling, spin-transfer torque, and pure spin currents</b> — •DANIEL E. BÜRGLER   |
| MA 48.3 | Thu | 14:00–14:15 | BH 243 | <b>Improved reliability of magnetic field programmable gate arrays through the use of memristive tunnel junctions</b> — •JANA MÜNCHENBERGER, PATRYK KRZYSTECZKO, GÜNTER REISS, ANDY THOMAS   |
| MA 48.4 | Thu | 14:15–14:30 | BH 243 | <b>Manipulation of Skyrmions created by opto-magnetic switching</b> — •STEFAN GERLACH, DENISE HINZKE, ULRICH NOWAK   |
| MA 48.5 | Thu | 14:30–15:00 | BH 243 | <b>Magnetoelastic Magnetization Control and Magnetization Dynamics at Low Temperatures</b> — •HANS HUEBL, ANDREAS BRANDLMAIER, CHRISTOPH ZOLLITSCH, JOHANNES LOTZE, MATHIAS WEILER, FREDRIK HOCKE, GEORG WOLTERS DORF, RULDOF GROSS, SEBASTIAN T.B. GOENENWEIN |

### Invited and Topical Talks of the Joint Session “Novel Spincaloritronic Devices: Control of Heat, Charge and Momentum Flow” (jointly with TT)

Organization: Markus Münzenberg (Univ. Göttingen), Mathias Weiler (WMI Garching)

|         |     |             |        |  |
|---------|-----|-------------|--------|--|
| MA 42.1 | Thu | 15:00–15:30 | EB 301 | <b>Spin Seebeck and spin Peltier effects in ferromagnetic-nonmagnetic devices</b> — •BART VAN WEES |
| MA 42.2 | Thu | 15:30–16:00 | EB 301 | <b>Magneto Seebeck effect in tunnel junctions</b> — •CHRISTIAN HEILIGER                            |
| MA 42.3 | Thu | 16:00–16:30 | EB 301 | <b>Seebeck spin tunneling into silicon</b> — •RON JANSEN   |

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|---------|-----|-------------|--------|--|
| MA 42.4 | Thu | 16:30–17:00 | EB 301 | <b>Spin currents in ferromagnetic insulator/normal metal hybrid structures</b> — •SEBASTIAN T.B. GOENNENWEIN, FRANZ D. CZESCHKA, JOHANNES LOTZE, GEORG WOLTERS DORF, MATHIAS WEILER, MICHAEL SCHREIER, MATTHIAS ALTHAMMER, MATTHIAS OPEL, HANS HUEBL, RUDOLF GROSS |
| MA 42.5 | Thu | 17:00–17:30 | EB 301 | <b>Spin waves and spin currents in hybrid magnetic nanostructures</b> — •SERGEJ O. DEMOKRITOV  |

## Sessions

|               |     |             |          |  |
|---------------|-----|-------------|----------|--|
| MA 1.1–1.5    | Mon | 9:30–12:00  | H 0105   | <b>Joint Symposium "Tailoring Magnetism in L1<sub>0</sub>-ordered Nanostructures: Perspectives for Magnetic Recording beyond 1 Tb/in<sup>2</sup>" (SYTM)</b>   |
| MA 2.1–2.11   | Mon | 9:30–12:45  | EB 301   | <b>Joint Session "Multiferroics I - Junctions and Thin Films / Magnetoelectric Coupling" (jointly with DF, DS, KR, TT), Organization: Manfred Fiebig (ETH Zürich)</b>  |
| MA 3.1–3.11   | Mon | 9:30–12:30  | EB 202   | <b>Bio- and Molecular Magnetism</b>  |
| MA 4.1–4.13   | Mon | 9:30–13:00  | H 1012   | <b>Spin-dependent Transport Phenomena</b>  |
| MA 5.1–5.11   | Mon | 9:30–12:30  | H 0112   | <b>Spin Structures and Magnetic Phase Transitions</b>  |
| MA 6.1–6.5    | Mon | 15:00–17:30 | H 0105   | <b>Joint Symposium (SYXD) "100 Years of X-ray Diffraction: From the Laue Experiment to new Frontiers" (jointly with KR, BP, CPP, DF, MA, MM, GP), Organization: Wiehl, Grübel, Rädler</b>  |
| MA 7.1–7.5    | Mon | 15:00–17:45 | EB 202   | <b>Joint Session "FePt Nanoparticles" (jointly with DS, MM), Organization: Michael Farle (Univ. Duisburg-Essen)</b>  |
| MA 8.1–8.6    | Mon | 17:45–19:15 | EB 202   | <b>Magnetic Particles / Clusters I</b>   |
| MA 9.1–9.12   | Mon | 15:00–18:30 | EB 301   | <b>Joint Session "Multiferroics II - Hexagonal Manganites / Incommensurate Multiferroics" (jointly with DF, DS, KR, TT)</b>  |
| MA 10.1–10.4  | Mon | 15:00–17:15 | H 1012   | <b>Focus Session "Topological Transport in Systems with broken Time Inversion Symmetry", Organization: Stefan Blügel (FZ Jülich)</b>   |
| MA 11.1–11.2  | Mon | 17:15–17:45 | H 1012   | <b>Spin-dependent Transport Phenomena II</b>   |
| MA 12.1–12.6  | Mon | 17:45–19:15 | H 1012   | <b>Joint Session "Topological Insulators I" (jointly with DS, HL, O, TT)</b>   |
| MA 13.1–13.17 | Mon | 15:00–19:30 | H 0112   | <b>Magnetic Materials</b>  |
| MA 14.1–14.5  | Tue | 9:30–12:00  | H 0105   | <b>Joint Symposium "Topological Insulators: Influence of Superconductivity, Magnetism and Extrinsic Spin-Orbit Interaction" (SYTI)</b>   |
| MA 15.1–15.12 | Tue | 9:30–13:00  | H 1012   | <b>Magnetization / Demagnetization Dynamics I</b>  |
| MA 16.1–16.8  | Tue | 9:30–11:45  | EB 202   | <b>Magnetic Particles / Clusters II</b>  |
| MA 17.1–17.5  | Tue | 11:45–13:00 | EB 202   | <b>Magnetic Measurement Methods</b>  |
| MA 18.1–18.12 | Tue | 9:30–12:45  | H 0112   | <b>Joint Session "Magnetic Semiconductors" (jointly with HL)</b>   |
| MA 19.1–19.12 | Tue | 9:30–12:45  | EB 301   | <b>Joint Session "Multiferroics III - Strain / New Routes towards Multiferroicity" (jointly with DF, DS, KR, TT)</b>   |
| MA 20.1–20.90 | Tue | 12:15–15:15 | Poster A | <b>Poster I - Biomagnetism, FePt Nanoparticles, Magnetic Particles/Clusters, Magnetic Materials, Magnetic Semiconductors, Half-metals/Oxides, Multiferroics, Topological Insulators, Spin structures/Phase transitions, Electron theory/Computational micromagnetics, Magnetic coupling phenomena/Exchange bias, Spin-dependent transport, Spin injection/spin currents, Magnetization/Demagnetization dynamics, Magnetic measurement techniques</b> |
| MA 21         | Tue | 13:30–13:30 | EB 301   | <b>ThyssenKrupp Dissertationspreis der AG Magnetismus</b>  |
| MA 22.1–22.13 | Wed | 9:30–13:00  | EB 301   | <b>Joint Session "Topological Insulators II" (jointly with DS, HL, O, TT)</b>  |
| MA 23.1–23.12 | Wed | 9:30–13:00  | H 1012   | <b>Magnetization / Demagnetization Dynamics II</b>   |
| MA 24.1–24.6  | Wed | 9:30–12:30  | BH 243   | <b>Joint Session "Soft X-ray Resonant Scattering for Complex Structural and Magnetic Investigations" (jointly with KR), Organization: Eberhard Goering (MPI-IS Stuttgart)</b>  |
| MA 25.1–25.4  | Wed | 9:30–10:45  | H 0112   | <b>Electron Theory of Magnetism</b>  |

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|---------------|-----|-------------|----------|--|
| MA 26.1–26.6  | Wed | 10:45–12:15 | H 0112   | Micromagnetism / Computational Magnetics   |
| MA 27.1–27.10 | Wed | 9:30–12:15  | EB 202   | Half-metals and Oxides (jointly with TT)   |
| MA 28.1–28.1  | Wed | 14:00–14:45 | H 0105   | Keynote Talk by Ivan Schuller  |
| MA 29.1–29.4  | Wed | 15:00–17:30 | Poster E | Poster related to SYXD: "100 Years since the Laue Experiment: Topical Aspects of Diffraction and Scattering" (jointly with KR, BP, CPP, DF, GP, MI, MM)  |
| MA 30.1–30.10 | Wed | 15:00–18:45 | EB 301   | Focus Session "Spin Currents in Magnetic Nanostructures", Organization: Mathias Kläui (Univ. Mainz)  |
| MA 31.1–31.4  | Wed | 15:00–16:00 | BH 243   | Magnetic Imaging   |
| MA 32.1–32.11 | Wed | 16:00–19:00 | BH 243   | Joint Session "Surface Magnetism I" (jointly with O)   |
| MA 33.1–33.10 | Wed | 15:00–18:00 | EB 202   | Magnetic Coupling Phenomena/ Exchange Bias   |
| MA 34.1–34.14 | Wed | 15:00–18:45 | H 1012   | Magnetization / Demagnetization Dynamics III   |
| MA 35.1–35.10 | Wed | 15:00–18:00 | H 0112   | Magnetic Heusler Compounds I   |
| MA 36.1–36.9  | Thu | 9:30–12:30  | H 1012   | Magnetic Heusler Compounds II  |
| MA 37.1–37.13 | Thu | 9:30–13:00  | EB 301   | Joint Session "Surface Magnetism II" (jointly with O)  |
| MA 38.1–38.13 | Thu | 9:30–13:00  | H 0112   | Magnetic Thin Films I  |
| MA 39.1–39.13 | Thu | 9:30–13:00  | EB 202   | Micro- and Nanostructured Magnetic Materials I   |
| MA 40.1–40.5  | Thu | 9:50–12:00  | BH 243   | PhD Student Symposium: "Spintronics on the Way to modern Storage Technology I", Organization: "Univ. Mainz team"   |
| MA 41.1–41.7  | Thu | 10:15–12:00 | H 0106   | Joint Session Magnetic Shape Memory Alloys I (jointly with DS, MM)   |
| MA 42.1–42.5  | Thu | 15:00–17:30 | EB 301   | Joint Session "Novel Spin-caloritronic Devices: Control of Heat, Charge and Momentum Flow" (jointly with TT), Organization: Markus Münzenberg (Univ. Göttingen), Mathias Weiler (WMI Garching)   |
| MA 43.1–43.4  | Thu | 15:00–16:45 | H 1012   | Joint Session "Graphen: Spin Transport" (jointly with DS, DY, HL, O, TT)   |
| MA 44.1–44.9  | Thu | 16:45–19:00 | H 1012   | Joint Session "Spins in Organic Materials" (jointly with DS)   |
| MA 45.1–45.14 | Thu | 15:00–18:45 | H 0112   | Joint Session "Magnetic Shape Memory Alloys II" (jointly with DS, MM)  |
| MA 46.1–46.8  | Thu | 15:00–17:15 | EB 202   | Magnetic Thin Films II   |
| MA 47.1–47.7  | Thu | 17:15–19:00 | EB 202   | Micro- and Nanostructured Magnetic Materials II  |
| MA 48.1–48.5  | Thu | 13:00–15:00 | BH 243   | PhD Student Symposium: "Spintronics on the Way to modern Storage Technology II", Organization: "Univ. Mainz team"  |
| MA 49.1–49.15 | Thu | 15:15–19:15 | BH 243   | Joint Session "Surface Magnetism III" (jointly with O)   |
| MA 50.1–50.8  | Fri | 9:30–11:30  | EB 301   | Joint Session "Spin-caloric Transport" (jointly with TT)   |
| MA 51.1–51.9  | Fri | 9:30–11:45  | H 1012   | Spin Excitations/ Spin Torque  |
| MA 52.1–52.67 | Fri | 11:00–14:00 | Poster A | Poster II - Magnetic Heusler compounds, Magnetic shape memory alloys, Thin Films, Micro-/Nano-structured magnetic materials, Graphene, Spins in organics, Magnetic imaging, Surface Magnetism, Spin excitations/Torque, Spin-caloric transport |

## Annual General Meeting of the Magnetism Division

Mittwoch 19:00–20:00 Raum H0112

- Bericht des Vorsitzenden
- Aussprache
- Verschiedenes