

## Section Magnetism Fachverband Magnetismus (MA)

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### Overview of Invited Talks and Sessions

(lecture rooms H10, H22, H23, and H5; Poster A)

#### Invited Talks

MA 1.1	Mon	9:30–10:00	H10	<b>Magnetovolume effects in L1<sub>0</sub> Fe-Pt alloys</b> — ●JULIA LYUBINA, INGO OPAHLE, MANUEL RICHTER, OLIVIER ISNARD, OLIVER GUTTFLEISCH, KARL-HARTMUT MÜLLER, LUDWIG SCHULTZ
MA 5.1	Mon	14:00–14:30	H10	<b>Novel magnetoresistive effect in organic semiconductors</b> — ●RALPH PAETZOLD, MANFRED RUEHRIG, JOACHIM WECKER
MA 5.2	Mon	14:30–15:00	H10	<b>Structural and magnetic properties of transition metal nanoparticles from first principles</b> — ●MARKUS ERNST GRUNER, GEORG ROLLMANN, ALFRED HUCHT, PETER ENTEL
MA 14.1	Tue	14:00–14:30	H10	<b>Controlling magnetism and self-organization of adatoms on surfaces by using quantum interferences</b> — ●PATRICK BRUNO, VALERI STEPANYUK, NIKOLAY NEGULYAEV, LARISSA NIEBERGALL
MA 14.2	Tue	14:30–15:00	H10	<b>XMCD in TM Oxides: Are there hidden orbital moments in magnetite?</b> — ●EBERHARD GOERING
MA 16.1	Wed	14:00–14:30	H10	<b>Out of plane steady-state precession for the 'perpendicular polarizer-planar free layer' spin torque oscillator</b> — ●URSULA EBELS, DIMITRI HOUS-SAMEDDINE, BERTRAND DELAET, BERNARD RODMACQ, IOANA FIRASTRAU, FABIENNE PONTHENIER, MAGALI BRUNET, CHRISTOPHE THIRION, JEAN-PHILIPPE MICHEL, LILIANA PREJBEANU-BUDA, MARIE-CLAIRE CYRILLE, BERNARD DI-ENY
MA 16.2	Wed	14:30–15:00	H10	<b>Multifunctional Ni-Mn-based shape memory alloys</b> — ●LLUIS MANOSA, XAVIER MOYA, ANTONI PLANES, SEDA AKSOY, THORSTEN KRENKE, MEHMET ACET, EBERHARD WASSERMANN
MA 21.1	Thu	9:30–10:00	H10	<b>To Be Announced.</b> ( <i>Talk by Zachary Fisk was withdrawn.</i> ) — ●XXX XXX
MA 22.1	Thu	10:15–10:45	H10	<b>Thermal properties of magnets from <i>ab initio</i>.</b> — ●JÜRGEN KÜBLER
MA 22.2	Thu	10:45–11:15	H10	<b>Highly spin-polarized tunneling in fully epitaxial magnetic tunnel junctions with a Co-based full-Heusler alloy thin film and a MgO barrier</b> — ●MASAFUMI YAMAMOTO, TAKAO MARUKAME, TAKAYUKI ISHIKAWA, KEN-ICHI MATSUDA, TETSUYA UEMURA
MA 22.3	Thu	11:15–11:45	H10	<b>giant tunnel magnetoresistance at room temperature using Co<sub>2</sub>Fe(SiAl) full Heusler alloy electrodes</b> — ●KOICHIRO INOMATA, NAOMICHI IKEDA, NOBUKI TEZUKA
MA 22.4	Thu	11:45–12:15	H10	<b>First-principles study of ferromagnetic Heusler alloys: an overview</b> — ●SILVIA PICOZZI
MA 25.1	Thu	14:00–14:30	H10	<b>Magnetische Wechselwirkungen in nanokristallinen Ferromagneten: Untersuchungen mit Neutronenstreuung</b> — ●ANDREAS MICHELS
MA 25.2	Thu	14:30–15:00	H10	<b>Strain induced ferromagnetic order in undoped LaCoO<sub>3</sub> thin films</b> — ●DIRK FUCHS, CHRISTIAN PINTA, THORSTEN SCHWARZ, PETER SCHEISS, PETER NAGEL, STEFAN SCHUPPLER, RUDOLF SCHNEIDER, MICHAEL MERZ, GEORG ROTH, HILBERT VON LÖHNESEN

MA 30.1	Fri	10:15–10:45	H10	<b>Response of plants and animals to magnetic fields with cryptochrome, a field sensitive blue light photoreceptor</b> — ●MARGARET AHMAD, PAUL GALLAND, THORSTEN RITZ, ROSWITHA WILTSCHKO, WOLFGANG WILTSCHKO
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### Invited talks of the joint symposium SYSS

See SYSS for the full program of the Symposium.

SYSS 1.1	Mon	9:30–10:00	H1	<b>Generating and manipulating spins in semiconductors</b> — ●DAVID AWSCHALOM
SYSS 1.2	Mon	10:00–10:20	H1	<b>Spin noise spectroscopy and spin dynamics in semiconductors</b> — ●MICHAEL OESTREICH, MICHAEL RÖMER, STEFANIE DÖHRMANN, STEFAN OERTEL, DANIEL HÄGELE, JENS HÜBNER
SYSS 1.3	Mon	10:20–10:40	H1	<b>Spin-orbit interaction in Si quantum wells</b> — ●WOLFGANG JANTSCH, HANS MALISSA, ZBYSLAW WILAMOWSKI
SYSS 1.4	Mon	10:40–11:00	H1	<b>Driven coherent oscillations of a single electron spin in a quantum dot</b> — ●FRANK KOPPENS, CHRISTO BUIZERT, KLAAS-JAN TIELROOIJ, IVO VINK, KATJA NOWACK, TRISTAN MEUNIER, LEO KOUWENHOVEN, LIEVEN VANDERSYPEN
SYSS 1.5	Mon	11:00–11:20	H1	<b>Electrical spin injection and detection in semiconductors</b> — ●PAUL CROWELL
SYSS 1.6	Mon	11:20–11:40	H1	<b>A microscopic view of the magnetism in magnetic semiconductors</b> ( <i>replaces the contribution by N. Samarth</i> ) — ●MICHAEL FLATTÉ
SYSS 1.7	Mon	11:40–12:00	H1	<b>Tailoring ferromagnetism in bulk semiconductors and quantum dots</b> — ●IGOR ZUTIC
SYSS 1.8	Mon	12:00–12:20	H1	<b>Tunnel Anisotropic Magneto Resistance - TAMR</b> — ●LAURENS MOLENKAMP
SYSS 1.9	Mon	12:20–12:40	H1	<b>Electric field controlled spintronic effects based on spin-orbit coupling</b> — ●TOMAS JUNGWIRTH
SYSS 1.10	Mon	12:40–13:00	H1	<b>Zero-bias spin separation in semiconductor heterostructures</b> — ●SERGEY GANICHEV

### Sessions

MA 1.1–1.1	Mon	9:30–10:00	H10	Invited Talk Lyubina
MA 2.1–2.11	Mon	10:15–13:00	H10	Magnetic Particles/Clusters I
MA 3.1–3.11	Mon	10:15–13:00	H22	Magnetic Materials I
MA 4.1–4.12	Mon	10:15–13:15	H23	Electron Theory of Magnetism
MA 5.1–5.2	Mon	14:00–15:00	H10	Invited Talks Pätzold / Gruner
MA 6.1–6.7	Mon	15:15–17:00	H10	Magnetic Particles/Clusters II
MA 7.1–7.6	Mon	17:00–18:30	H10	Micromagnetism/Computational Magnetism
MA 8.1–8.8	Mon	15:15–17:15	H22	Magnetic Materials II
MA 9.1–9.5	Mon	17:15–18:30	H22	Anisotropy/Magnetoelasticity
MA 10.1–10.15	Mon	15:15–19:00	H23	Spinelectronics/Spininjection in Heterostructures
MA 11.1–11.11	Tue	10:15–13:00	H10	Magnetic Thin Films I
MA 12.1–12.11	Tue	10:15–13:00	H22	Spindependent Transport I
MA 13.1–13.12	Tue	10:15–13:15	H5	Spinstructures and magnetic Phase Transitions
MA 14.1–14.2	Tue	14:00–15:00	H10	Invited Talks (joint session with O) Bruno / Göring
MA 15.1–15.156	Tue	15:00–19:00	Poster A	Poster:ThinFilms(1-33),Transp.(34-49),ExchBias(50-56), Spindynamics(57-70),Micro-nanostr.Mat.(71-82), Particles/Clust.(83-88), Mag.Imag./Surface(89-96), Spinelectronics(97-109), Theory/Micromag.(110-116), Spinstruct/Phasetr.(117-128),Magn.Mat.(129-139), Aniso.+Measuring(140-145), MolMag.(146-152), MSMA(153-156)
MA 16.1–16.2	Wed	14:00–15:00	H10	Invited Talks Ebels / Manosa
MA 17.1–17.16	Wed	15:15–19:15	H10	Magnetic Shape Memory Alloys
MA 18.1–18.13	Wed	15:15–18:30	H22	Spindependent Transport II
MA 19.1–19.15	Wed	15:15–19:00	H23	Spin-Dynamics/Switching I

MA 20.1–20.14	Wed	15:15–18:45	H5	<b>Magnetic Thin Films II</b>
MA 21.1–21.1	Thu	9:30–10:00	H10	<b>Invited Talk (joint session with TT)</b>
MA 22.1–22.8	Thu	10:15–13:15	H10	<b>FV intern Symposium: "Heusler Alloys"</b> <b>Invited Talks Kübler/Yamamoto/Inomata/Silvia Picozzi</b>
MA 23.1–23.10	Thu	10:15–12:45	H22	<b>Micro- and Nanostructured Magnetic Materials I</b>
MA 24.1–24.10	Thu	10:15–12:45	H23	<b>Spindynamics / Switching II</b>
MA 25.1–25.2	Thu	14:00–15:00	H10	<b>Invited Talks Michels / Fuchs</b>
MA 26.1–26.13	Thu	15:15–18:30	H10	<b>Exchange Bias</b>
MA 27.1–27.13	Thu	15:15–18:30	H22	<b>Micro- and Nanostructured Magnetic Materials II</b>
MA 28.1–28.15	Thu	15:15–19:00	H23	<b>Surface Magnetism</b>
MA 29.1–29.5	Thu	15:15–16:30	H5	<b>Magnetic Measuring Methods / Sensors / Actuators</b>
MA 30.1–30.1	Fri	10:15–10:45	H10	<b>Invited Talk Margaret Ahmad</b>
MA 31.1–31.7	Fri	11:00–12:45	H10	<b>Bio- and Molecular Magnetism</b>
MA 32.1–32.8	Fri	11:00–13:00	H22	<b>Magnetic Imaging</b>
MA 33.1–33.8	Fri	11:00–13:00	H23	<b>Spindynamics / Switching III</b>

### Annual General Meeting of the Section Magnetism

Donnerstag 19:00–20:00 H10

- Bericht des Sprechers
- Wahl des FV Vorsitzenden
- Verschiedenes