

# Program

(last updated: July 17, 2009)



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## Monday, July 20th

- 14:15    Opening
- 14:30    P. Grünberg, Forschungszentrum Jülich (Germany):  
"A short history of the electron and the discovery of the GMR effect"  
(invited)
- 15:00    Poster Session 1
- 18:00    Special session dedicated to the memorial of Tony Bland  
M. Kläui, Universität Konstanz (Germany):  
"Nanomagnetism in confined geometries – from magnetic rings to current-induced  
domain wall motion"  
(invited)
- 18:45    Welcome Reception

## Tuesday, July 21st

- 09:00    R. P. Cowburn, Imperial College London (United Kingdom):  
"Domain walls in nanowires for digital logic and memory"  
(invited)
- 09:30    M. D. Stiles, National Institute of Standards and Technology, Gaithersburg  
(U.S.A.):  
"Theory of current-induced domain wall motion"  
(invited)
- 10:00    M. Cormier, CNRS, Université Paris-Sud, Orsay (France):  
"Field and current-induced domain wall propagation in magnetic nanotracks with  
out-of-plane anisotropy"
- 10:15    R. Mattheis, Institut für Photonische Technologien Jena (Germany):  
"New motion type of domain walls in nanostrips under the influence of transversal  
fields"
- 10:30    Coffee Break
- 11:00    A. V. Kimel, Radboud University Nijmegen (The Netherlands):  
"Femtosecond opto-magnetism: A key to novel mechanisms of spin reorientation"  
(invited)
- 11:30    B. Koopmans, Eindhoven University of Technology (The Netherlands):  
"Controlling femtosecond magnetization dynamics by laser-induced inter-layer spin  
transfer"

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- 11:45 C. H. Back, Universität Regensburg (Germany):  
“Magnetization dynamics in the ferromagnetic semiconductor (Ga,Mn)As”  
(invited)
- 12:15 N. Reckers, Universität Duisburg-Essen (Germany):  
“Influence of microwave irradiation on the spin-current induced precession”
- 12:30 Lunch Break
- 14:00 A. Thiaville, CNRS, Université Paris-Sud, Orsay (France):  
“Magnetization dynamics of a spiral structure”
- 14:15 L. Bocklage, Universität Hamburg (Germany):  
“Domain-wall oscillations studied by time-resolved soft x-ray microscopy”
- 14:30 S. Serrano-Guisan, Physikalisch-Technische Bundesanstalt, Braunschweig  
(Germany):  
“Time-resolved spin torque dynamics in MgO-based magnetic tunneling junctions  
in tilted configurations”
- 14:45 C. Schwark, Rheinisch-Westfälische Technische Hochschule Aachen (Germany):  
“Electrical injection of spin packets phase-triggered by current pulses and their  
electrical detection across an Fe/GaAs Schottky contact”
- 15:00 Poster Session 2
- 18:00 M. Weinelt, Max-Born-Institut, Berlin (Germany):  
“Surface states as a sensor of band ferromagnetism and spin-dependent dynamics”  
(invited)

## Wednesday, July 22nd

- 09:00 X. Jin, Fudan University, Shanghai (P.R. China):  
“Magnetically driven anomalous elasticity in iron”  
(invited)
- 09:30 J. M. Tonnerre, CNRS, Université J. Fourier, Grenoble (France):  
“Non-collinear spin structure in ultrathin fcc-Fe/Cu(001) observed by soft x-ray  
resonant magnetic reflectivity”
- 09:45 H. Abe, Keio University, Yokohama (Japan):  
“NO adsorption-induced antiferromagnetic coupling at the surface of Fe/Cu(001)”
- 10:00 E. Schierle, Helmholtz-Zentrum Berlin für Materialien und Energie (Germany):  
“Antiferromagnetic order with atomic layer resolution in thin semiconducting  
films”
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- 10:15 S. Couet, Katolieke Universiteit Leuven (Belgium):  
“Stabilization mechanism of a nanometer-scaled antiferromagnetic layer”
- 10:30 Coffee Break
- 11:00 H. Ebert, Ludwig-Maximilians-Universität München (Germany):  
“Magnetic anisotropy of transition metal surface systems”  
(invited)
- 11:30 S. Rusponi, Ecole Polytechnique Fédérale de Lausanne (Switzerland):  
“High magnetic moments and anisotropies for  $\text{Fe}_x\text{Co}_{1-x}$  monolayers on Pt(111)”
- 11:45 S. Langridge, ISIS, STFC, Didcot (United Kingdom):  
“The role of interfacial strain on a magnetostructural phase transition”
- 12:00 Ch. Binck, University of Nebraska, Lincoln (U.S.A.):  
“Electrically controlled magnetism”
- 12:15 T. Nozaki, Osaka University (Japan):  
“Voltage control of perpendicular magnetic anisotropy in epitaxial Au/ultrathin Fe/MgO/Fe junctions”
- 12:30 Lunch Break
- 14:00 V. Baltz, SPINTEC, CEA Grenoble (France):  
“Bimodal distribution of interfacial antiferromagnetic spins responsible for exchange bias in ferromagnetic/antiferromagnetic bilayers”
- 14:15 J. Jackson, Universität Konstanz (Germany):  
“Simulation of iridium manganese in exchange bias bilayers”
- 14:30 T. Nakagawa, Institute for Molecular Science, Okazaki (Japan):  
“Two-photon photoemission magnetic circular dichroism: Energy and angle dependence in valence band”
- 14:45 R. Frömter, Universität Hamburg (Germany):  
“From x-ray magnetic holography to holographic microscopy”
- 15:00 Poster Session 3
- 18:00 A. K. Schmid, Lawrence Berkeley National Laboratory (U.S.A.):  
“Spin-polarized low energy electron microscopy for in-situ observation of growth and magnetism of nanomaterials”  
(invited)
- 18:30 M. R. Fitzsimmons, Los Alamos National Laboratory (U.S.A.):  
“How can polarized neutron reflectometry help us understand phantom”
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magnetism?”  
(invited)

## Thursday, July 23rd

- 09:00 T. Ono, Kyoto University (Japan):  
“Current-induced domain wall motion in perpendicularly magnetized Co/Ni wires”  
(invited)
- 09:30 Y. Otani, University of Tokyo (Japan):  
“Efficient spin accumulation and pure-spin-current-induced magnetization switching”  
(invited)
- 10:00 Y. Sakuraba, Tohoku University, Sendai (Japan):  
“Giant magneto-resistance in  $\text{Co}_2\text{MnSi}/\text{NM}/\text{Co}_2\text{MnSi}$  (NM = Cr, Ag) fully-epitaxial CPP-GMR devices”
- 10:15 Y. Ohdaira, Tohoku University, Sendai (Japan):  
“Gate voltage dependence of tunnel magnetoresistance in spin transistor using  $\text{Co}_2\text{MnSi}$  electrodes”
- 10:30 Coffee Break
- 11:00 S. Yuasa, Tsukuba (Japan):  
“Epitaxial Fe/Cr/MgO/Fe magnetic tunnel junctions with an ultra-thin Cr(001) space layer”  
(invited)
- 11:30 P.-J. Zermatten, SPINTEC, CEA Grenoble (France):  
“Electronic transport signature of oxygen in the fully epitaxial Fe/O/MgO/Fe system - toward the understanding of the AF coupling for thin barriers”
- 11:45 G. Autès, Open University, Milton Keynes (United Kingdom):  
“Tuning the sign and magnitude of the tunneling magnetoresistance of an Fe/Ag/MgO/Fe(001) junction”
- 12:00 A. Fert, CNRS, Université Paris-Sud, Orsay (France):  
“Large spin Hall effect induced by resonant scattering on spin-orbit split impurity states”  
(invited)
- 12:30 Lunch Break
- 14:00 F. Casanova, University of California, San Diego (U.S.A.):  
“Surface scattering effects in metallic lateral spin valves”

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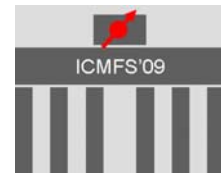
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- 14:15 J. M. de Teresa, Universidad de Zaragoza-CSIC (Spain):  
“Conduction properties and magnetoresistance in atomic-sized magnetic constrictions created by focused-ion-beam etching”
- 14:30 A. Takeuchi, Tokyo Metropolitan University (Japan):  
“Theory of the inverse spin Hall effect by spin dynamics”
- 14:45 P. Buczek, Max-Planck-Institut für Mikrostrukturphysik, Halle (Germany):  
“The magnon states of Fe/W(110) and their non-monotonous energy dependence on the film thickness”
- 15:00 Poster Session 4
- 19:00 Excursion and Conference Dinner

### Friday, July 24th

- 09:00 J. Wiebe, Universität Hamburg (Germany):  
“Atomic scale mapping of magnetism in adatom nanostructures”  
(invited)
- 09:30 W. Wulfhekel, Universität Karlsruhe (Germany):  
“Inelastic scanning tunneling spectroscopy: A new tool to study magnetic excitations on the nanometer scale”  
(invited)
- 10:00 K. von Bergmann, IBM Almaden Research Center, San Jose (U.S.A.):  
“Spin-resolved excitations of single atoms with scanning tunneling microscopy”
- 10:15 S. Rohart, CNRS, Université Paris-Sud, Orsay (France):  
“Thermal excitations in nanodots with perpendicular magnetic anisotropy”
- 10:30 Coffee Break
- 11:00 D. Sander, Max-Planck-Institut für Mikrostrukturphysik, Halle (Germany):  
“Unexpected size and temperature dependence of the magnetic switching field of individual Co nanoislands”  
(invited)
- 11:30 J. M. Shaw, National Institute of Standards and Technology, Boulder (U.S.A.):  
“Reversal mechanisms and defects in perpendicularly magnetized nanostructures”
- 11:45 V. Dupuis, Université de Lyon (France):  
“Magnetic reversals and chemical ordering in  $\text{Co}_x\text{Pt}_{1-x}$  clusters prepared by low energy cluster beam deposition (LECBD)”
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- 12:00 J. M. García-Martín, IMM-CNM-CSIC, Madrid (Spain):  
“Magnetoplasmonic nanostructures exhibiting related plasmonic and magnetic properties”
- 12:15 F. Ciubotaru, Technische Universität Kaiserslautern (Germany):  
“Current controlled three-magnon-scattering processes in nanopoint contact spin-valves”
- 12:30 M. J. Benitez, Ruhr-Universität Bochum (Germany):  
“Evidence for core-shell magnetic behavior in antiferromagnetic nanostructures”
- 12:45 U. B. Arnalds, Uppsala University (Sweden):  
“X-ray resonant magnetic scattering from patterned  $\text{Co}_{68}\text{Fe}_{24}\text{Zr}_8/\text{Al}_2\text{O}_3$  amorphous magnetic multilayers”
- 13:00 L. J. Heyderman, Paul-Scherrer-Institut, Villigen (Switzerland):  
“Building blocks of an artificial Kagome ice system”
- 13:15 F. O. Schumann, Max-Planck-Institut für Mikrostrukturphysik, Halle (Germany):  
“Emission of correlated electron pairs from ferromagnetic Fe(001) by spin-polarized incident electrons”
- 13:30 Closing Session,  
Announcement of *Best Poster Award* and the next conference site