

General instructions for

**Oral talks:**

- Tutorial talks: 30 + 10 minutes discussion
- Contributed talks: 12 + 5 minutes discussion

**Poster session:**

Micro talks: 2 minutes introduction of the poster (1 power point slide) with following discussion at the posters

**Sunday, January 15, 2012**

14:00          *Departure from IFW*  
16:00          *Arrival at Ringhotel Oberwiesenthal*  
16:00 16:45 *Check in*  
16:45 17:00 *Introduction: L. Schultz*

**17:00 18:30 session I**

**L. Schultz**

**Tutorial:**

**Denys Makarov**

"Magnetic data storage"

**Volker Neu**

"Magnetization reversal in thin Co/Pt multilayers with tailored pinning sites"

**Robert Streubel**

"Magnetism on curved surfaces"

18:30 20:00 *Dinner*

**20:00 21:00 session II**

**N. Mattern**

**Diana Iselt**

"Impact of the buffer layer on the electrochemical growth of Fe-Ga films"

**Stephan Zimmermann**

"Magnetic properties of epitaxial Nd(1-x)PrxCo5 thin films grown on Al2O3 (001)"

**Martin Kopte**

"Exchange coupled Sm-Co/Fe thin films"

21:00 21:10 *break*

**21:10 22:00 session III**

**D. Lindackers**

**Kristina Tschulik**

"How to obtain structured electrodeposits by means of magnetic gradient fields?"

**Peter Dunne**

"Dilute Magnetic Semiconductors: Electrochemical Routes and ab initio Studies of ZnO"

**Ludwig Reichel**

"Ultrathin L10 CoPt films and variation of their magnetic properties by electric charging in an electrolyte"

Monday, January 16, 2012			
<b>09:00</b>	<b>10:40</b>	<b>session IV</b>	<b>S. Wurmehl</b>
		<b>Tutorial:</b>	
		<b>Rudolf Schäfer</b>	
		"3D imaging of magnetic domains"	
		<b>Steffen Sykora</b>	
		"Interplay between particle motion and spin degrees of freedom within a generalized fermion-boson transport model"	
		<b>Ganesh Ramachandran</b>	
		"Quantum paramagnetism on the honeycomb lattice - the case of Bi <sub>3</sub> Mn <sub>4</sub> O <sub>12</sub> (NO <sub>3</sub> )"	
		<b>Alexey Alfonsov</b>	
		Ferromagnetic resonance study of Ni-doped and Li-deficient LiFeAs compound	
<i>10:40</i>	<i>11:00</i>	<i>Coffee break</i>	
<b>11:00</b>	<b>12:20</b>	<b>session V</b>	<b>H. Rosner</b>
		<b>Konrad Güth</b>	
		"Recycling Nd-Fe-B using Hydrogen Processing"	
		<b>Sabine Wurmehl</b>	
		"Nuclear Magnetic Resonance spectroscopy- a powerful tool to investigate half-metallic ferromagnetic Heusler compounds"	
		<b>Tino Gottschall</b>	
		"Fundamental study on the magnetocaloric effect of Ni-Mn based Heusler alloys"	
		<b>Ioannis Rouschatzakis</b>	
		"Quantum phases on the Cairo pentagonal lattice"	
<i>12:20</i>	<i>13:20</i>	<i>Lunch</i>	
<i>13:20</i>	<i>17:00</i>	<i>Spare time</i>	
<b>17:00</b>	<b>18:30</b>	<b>session VI</b>	<b>D. Makarov</b>
		<b>Michael Melzer</b>	
		"Flexible and stretchable magnetic sensors"	
		<b>Heidemarie Schmidt</b>	
		"Validated magneto-optical measurements on ferromagnetic thin films"	
		<b>Sebastian Fähler</b>	
		"MSM"	
		<b>Christian Behler</b>	
		"TEM investigations of thin Ni-Mn-Ga films"	
<i>18:30</i>	<i>20:00</i>	<i>Dinner</i>	
<b>20:00</b>		<b>Poster session</b>	<b>B. Rellinghaus</b>
		title of posters: see end of the program	

Tuesday, January 17, 2012			
<b>09:00</b>	<b>10:20</b>	<b>session VII</b>	<b>J. Eckert</b>
		<b>Tutorial:</b>	
		<b>Mihai Stoica</b>	
		"Fe-basierte BMGs"	
		<b>Amir H. Taghvaei</b>	
		"Co-based metallic glasses, alloyed by powder metallurgy"	
		<b>Jun Hee Han</b>	
		"Phase separation and magnetic properties in Gd-based metallic glasses"	
10:20	10:50	<i>Coffee break</i>	
<b>10:50</b>	<b>12:00</b>	<b>session VIII</b>	<b>B. Holzapfel</b>
		<b>Simon Sawatzki</b>	
		"Coercivity enhancement in nanocrystalline NdFeB hot pressed magnets by means of DyF <sub>3</sub> "	
		<b>David Geißler</b>	
		"Deformation induced thermoremanent magnetisation in an FeMnNiCr antiferromagnetic alloy"	
		<b>Konrad Löwe</b>	
		"Investigation of the Thermal decomposition reaction in the magnetocaloric system La(Fe,Si,Co) <sub>13</sub> "	
		<b>Claudia Hürnich</b>	
		"Magnetic shape memory alloys single crystals, polycrystals and composites"	
12:00	13:00	<i>Lunch</i>	
13:00	17:00	<i>Spare time</i>	
<b>17:00</b>	<b>18:30</b>	<b>session IX</b>	<b>R. Schäfer</b>
		<b>Thomas Mühl</b>	
		"Magnetism meets nanomechanics"	
		<b>Stefan-Ludwig Drechsler</b>	
		"Quantum magnetism and surprises from weak interchain couplings in quasi-1D cuprates"	
		<b>Stefanie Hartmann and Uwe Siegel</b>	
17:45	18:30	"Patente als Verwertungschance - Der Technologietransfer am IFW stellt sich vor"	
18:30	20:00	<i>Dinner</i>	
<b>20:00</b>		<b>Invited evening talk</b>	<b>L. Schultz</b>
		<b>Prof. emerit. Jens-Boie Suck</b> , University of Technology Chemnitz, Faculty of Natural Sciences	
		"Was sind Quasikristalle?"	

Wednesday, January 18, 2012

09:00 10:20

session X

T. Mühl

**Anja Waske**

"Magnetocaloric effect of Fe-based metallic glasses"

**Maria Krautz**

"Effect of hydrogen in magnetocaloric La(Fe,Si)<sub>13</sub>-  
compounds"

**Konstantin Skokov**

"Toward to optimal magnetocaloric materials with first-  
order phase transition: the problem of thermal and  
magnetic hysteresis in La(FeSi)<sub>13</sub> and Ni-Mn-Ga"

**Robert Niemann**

"Apparent Caloric Effects due to Variant Reorientation"

10:20 10:50

Coffee break

10:50 12:10

session XI

A. Waske

**Yulia Krupskaya**

"Quantum magnetism in the Mn<sub>2</sub>Ni<sub>3</sub> single molecular  
magnet"

**Santosh Kumar Pal**

"Textured nanoflakes of SmCo<sub>5</sub> prepared by high energy  
ball milling"

**Darius Pohl**

"Anisotropic Segregation in FePt nanoparticles"

**Eslam Ibrahim**

"Synthesis of magnetic Nanoparticles Dispersed in  
Spherically Shaped Carbon Nanoballs: Novel composites  
for medical applications"

12:10 13:00

Lunch

13:00 14:30

session XII

S. Sykora

**Veronika Hähnel**

"MSM nanowires: structure and magnetism of  
electrodeposited Fe<sub>70</sub>Pd<sub>30</sub> Nanowires"

**Stefanos Kourtis**

"Exact results for resonant inelastic x-ray scattering  
spectra of one-dimensional Mott insulators"

**Helge Rosner**

"Crystal chemistry meets quantum magnetism -  
surprises in Cu<sup>2+</sup> compounds"

**Ivan Soldatov**

"Spin Seebeck Effect"

14:30

Departure from Oberwiesenthal

16:30

Arrival at IFW Dresden

**poster session      Micro talks: 2 minutes introduction of the poster (1 power point slide) with following discussion at the posters**

Tom Woodcock	Multiscale Characterisation and Modelling in Nd-Fe-B Sintered Magnets
Ulrike Wolff	Existence range of metamagnetic domains in AF coupled multilayers observed by MFM
Angelika Teresiak	High-Pressure High-Temperature in situ XRD of Fe-Nd-B under hydrogen atmosphere
Fedor Fedorov	Electrochemical deposition of multilayered Co-Cu/Cu nanowires
Margitta Uhlemann	Deposition of magnetic structures in applied gradient fields
Anna Möhn	Observation of the magneto-optical Voigt effect in AF/F-bilayer systems
Alexander Surrey	Surface diffusion in Au nanoparticles
Anja Kießling	SiC filled carbon nanotubes
Gungun Lin	Approaches towards in-flow magnetic detection.
Wolfgang Löser	Magnetic ordering in R <sub>2</sub> PdSi <sub>3</sub> intermetallic compounds with light rare earths R = Pr and Nd
Saicharan Aswartham	Is LiFeAs close to the ferromagnetic instability
Steve Rodan	Magnetism and Specific Heat in Half-Metallic Ferromagnetic Heuslers
Yao Shuai	Nonvolatile resistive switching in multiferroic BiFeO <sub>3</sub>
Danilo Bürger	Anomalous Hall effect in a Mn-rich, amorphous Ge:Mn nanonet
Elena Lopatina	Preparation and characterization of nanocrystalline Fe-based soft magnetic ribbons
Sandra Kauffmann-Weiss	Changing magnetic properties of the MSM alloy Fe <sub>70</sub> Pd <sub>30</sub> by adding Cu