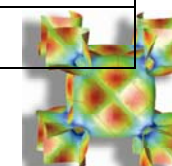




**4th MAINZ/ MATCOR summer school and
7th International Symposium on New Materials with High Spin Polarization
“New materials for spintronics, theory and experiment”**



Date Time	Mon 11 th Aug.	Tue 12 th Aug.	Wed 13 th Aug.	Thur 14 th Aug. Symposium	Fri 15 th Aug. Symposium
9:00-10:00	Halfmetals are not semimetals, a primer to magnetic states of metals and matter (G. H. Fecher)	Brillouin light scattering technique (J. Hamrle)	Thin film deposition methods (M. Jourdan)	Organic magnetoresistance OMAR (B. Koopmans)	Semiconductor-Spintronics: New results (D. Weiss)
10:00-11:00	Electron correlations in solids and application to Heusler compounds (S. Chadov)	Time-resolved photoemission and application to Heusler compounds (M. Cinchetti)	TMR devices (T. Kubota, G. Kim)	Half-metallic epitaxial Fe ₃ O ₄ and CrO ₂ Films: spin polarization and magnetotransport (M. Fonin)	Chemistry and physics of intermetallic skutterudites: spin polarization aspect (Y. Grin)
11:00-11:30	Coffee break	Coffee break	Lunch break Bus departure 12:30	Coffee break	Coffee break
11:30-12:30	NMR, Introduction and application to Heusler compounds (S. Wurmehl)	High energy photoemission and application to Heusler compounds (A. Gloskovskij)		Multiferroics and magnetoelectrics: new spintronic routes (W. Kleemann)	The new FeAs-based superconductors (B. Büchner)
12:30-13:30	Lunch break	Lunch break	Excursion to Dresden Activities: ○ sightseeing tour ○ concert in the “Zwinger” ○ Weinstube (facultative participation)	Lunch break	Lunch break
13:30-14:00	NMR (S. Wurmehl)	Patent law I (K. Schweitzer)		Implicit Exchange-Correlation Energy Functionals: A Third Generation of Density Functional Theory (E. Engel, 13:30-14:30)	Meeting of the project leaders FG 559
14:00-15:00	Calculation of the electronic structure of thin films using layer KKR (J. Minar)			Spindensityfunctional-theory of magnetic materials (H. Eschrig, 14:30-15:30)	
15:00-15:30	Coffee break	Coffee break		Coffee break	Coffee break
15:30-16:30	Imaging, synthesis and fabrication with Synchrotron X-rays (Y. Hwu)	Patent law II Practice (K. Schweitzer)		Coffee break	Bus departure 16:00 Arrival Mainz 22:30
16:30-17:00	Short break			Double-Perovskites: from half-metallic ferrimagnets to Mott-Hubbard insulators (J. Kübler, 16:00-16:30)	
17:00-18:00	Poster session (Ph.D. students) with finger food	Hiking tour (1.5 h, if the weather is fine)		Discussions	
19:00-21:00			Conference dinner (Elbschlösschen & Rathener Hof)		



Venue: Hotel Rathener Hof; 01796 Struppen-Weißig; Room “Weitblick” <http://www.hotelrathenerhof.de/main.html>
Accommodation: Hotel Rathener Hof & Elbschlösschen <http://www.hotelelbschloessen.de/index.php>
 Johannes Gutenberg University of Mainz <http://www.matcor.de>
 Technical University of Kaiserslautern <http://www.physik.uni-kl.de>