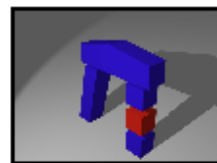




Quantum Magnetism

1. MATCOR Student Workshop in Kaiserslautern



Date

Friday, January the 25th - Sunday, January the 27th

Location

Alter Bremerhof, Bremerhof 1, 67663 Kaiserslautern

Program

Friday, January the 25th

10:30	Arrival
11:00-12:30	Welcome Michael Bortz (University of Kaiserslautern) “ Path Integral Methods for Spin Systems ”
12:30- 14:00	Lunch
14:00-15:30	Michael Oestreich (University of Hannover) “ Spintronic and Spinoptoelectronic in Semiconductors ”
15:30:16:00	Coffee break
16:00-16:30	Yao-Hui Zhu (University of Kaiserslautern) “ Time-Dependent Spin Transport through Ferromagnet-Metal Junction ”
16:30-17:00	Timo Neumann (University of Kaiserslautern) “ Longitudinal Parametric Amplification of Spin Waves ”
Evening program	Walk downtown (approximately 1 h) Conference Dinner: TwentyOne Willy-Brandt-Platz 1 67655 Kaiserslautern



Saturday, January the 26th

9:00-10:30	Sergej Demokritov (University of Münster) “ Quantum Thermodynamics of Magnons ”
10:30-11:00	Coffee break
11:00-11:30	Imke Schneider (University of Kaiserslautern) “ The Local Density of States of a Finite Quantum Wire: New Insights from DMRG and Bosonization ”
11:30-12:00	Sebastian Will (University of Mainz) “ Mixture of Bosonic and Fermionic Atoms in an Optical Lattice ”
12:00-12:30	Stefan Trotzky (University of Mainz) “ Direct Observation and Control of Superexchange Interaction with Ultracold Atoms in Optical Lattices ”
12:30-14:00	Lunch
14:00-15:30	Georg Schmidt (University of Würzburg) “ Spininjection into Semiconductors: Physics and Experiment ”
15:30-16:00	Coffee break
16:00-17:30	Jaroslav Fabian (University of Regensburg) “ Spin Coherence in Low-Dimensional Semiconductor Systems ”
18:00-20:00	Dinner
20:00-	Poster session

Sunday, January the 27th

9:00-10:30	Roberta Sessoli (University of Florence) “ Quantum Effects in the Dynamics of the Magnetization of Molecular Nanomagnets ”
10:30-11:00	Coffee break
11:00-12:30	Belén Paredes (University of Mainz) “ Topological matter: What is it and what can we do with it ? ”
12:30-14:00	Lunch
14:00	Departure