

SFB 1238 Retreat 2017

5. - 6.10.2017

Maria Laach

PRELIMINARY

Do. 5.10.

08:30	<i>departure from Cologne</i>		
10:00	<i>check in /coffee</i>		
11:00	IRIDATES	Markus Grüninger	Double-slit interference in RIXS on Ba ₃ CeIr ₂ O ₉
11:30		Maria Hermanns	tba
12:00	<i>Lunch walk at the lake</i>		
14:00	TI's	Oliver Breunig	Gigantic negative magnetoresistance and charge puddles in topological insulators
14:30		Alexey Taskin	Planar Hall effect from the surface of topological insulators
15:00		Henry Legg	Anisotropic magnetoresistance in Dirac materials
15:30	<i>Coffee break</i>		
16:00	COUPLED ORDER	Sebastian Biesenkamp	Neutron scattering studies of multiferroics
16:30		Christoph Grams	Critical dynamics influenced by quantum fluctuations in multiferroic LiCuVO ₄ : Chiral solitons excitable by electric field
17:00	NEW DEVELOPMENTS	A02	tba
17:30		Daniel Khomskii	New phenomena, new materials
18:00	<i>Dinner</i>		
19:00	<i>Postersession</i>		

Fr. 6.10.

08:00	<i>Breakfast</i>		
09:00	NON EQUILIBRIUM	Johannes Kombe	Observation of the Higgs mode in the BEC-BCS crossover in Fermi gases
09:30		Rolf Versteeg	Ultrafast energy transfer in helimagnetic Cu ₂ OSeO ₃ probed by time resolved Raman spectroscopy
10:00		Florian Lange	Pumping approximately integrable systems
10:30	<i>Coffee break</i>		
11:00	KITAEV/SPIN MODELS	Simon Trebst	Thermodynamics of Kitaev spin liquids
11:20		Thomas Koethe	Low energy excitation continuum in RuCl ₃
11:40		Michael Scherer	Competing phases in spin models and multi-orbital interacting electron systems (with spin-orbit coupling): A functional renormalization group approach
12:00	<i>Lunch discussion</i>		
14:00	2D SYSTEMS	Niels Ehlen	Field Effect control of band inversion and topological edge states in Black Phosphorus
14:30		Cliff Murray	Investigation and manipulation of one-dimensional phenomena in monolayer-MoS ₂
15:00	<i>Coffee break</i>		
15:30	SKYRMIONS	Lukas Heinen	New Skyrmion Phase in Cu ₂ OSeO ₃
15:50		Ionela Vrejoiu	Novel magnetic order generated at 4d/5d perovskite oxide interfaces
16:10		Stefan Blügel	Skyrmions and Antiskyrmions in rank-1, -2, and -3 DMI materials
16:30	<i>departure to Cologne</i>		