Poster session – Sept. 10th 2018

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TITLE	PRESENTING AUTHOR
Topological superconductivity in Cu _{1.5} (PbSe) ₅ (Bi ₂ Se ₃) ₆	Lionel Andersen
Topological mechanics from supersymmetry	Jan Attig
Time-dependent glassy relaxation in the compensated topological insulator BSTS2	Mahasweta Bagchi
Anisotropy of the upper critical field in superconducting InxSn _{1-x} Te	Mengmeng Bai
Competing orders and quantum criticality in itinerant electron systems	Carsten Bauer
The Kitaev model unHiggsed: A field-driven U(1) spin liquid in the honeycomb Kitaev model	Christoph Berke, Ciaran Hickey
Aging and hierarchical dynamics in dissipative quantum spin systems	Jean-Sébastien Bernier
Tunneling spectroscopy on MBE grown heterostructures	Andrea Bliesener
Toward STM studies of topological matter in transport geometry at low temperatures and high magnetic fields	Jens Brede
Magnetic structure of the triangular magnet Cs ₃ Fe ₂ Br ₉	Daniel Brüning
Emergent transport in textured non-Abelian non-collinear antiferromagnets	Patrick Buhl
Competing magnetic orders and spin liquids in three-dimensional quantum magnets	Finn Lasse Büßen, Dominik Kiese
Ab initio studies of two-dimensional (2D)-based hybrid interfaces	Vasile Caciuc, Nicolae Atodiresei
Narrow photoluminescence peak of epitaxial MoS ₂ on graphene/Ir(111)	Niels Ehlen
Gauge frustration and bond-bond correlations in Kitaev spin liquids	Tim Eschmann, Kevin O'Brien
Fabrication and transport study of topological insulator nanoribbons	Dingxun Fan, Matthias Rößler
Nanodevice experiments on superconductivity in topological-insulator materials	Junya Feng
New millikelvin STM system with vector magnetic field for spin dependent measurements	Jeison Fischer
Structural and Dynamic Investigation of Multifferoics	Tobias Fröhlich
Raman scattering of RuCl ₃ in high magnetic fields	Raphael German, Thomas Koethe

TITLE	PRESENTING AUTHOR
Polarization dynamics in LiCuVO ₄	Christoph Grams
Growth and structure of mono- to few-layer VS ₂ on graphene on Ir(111)	Joshua Hall
Two New Phases in the Chiral Magnet Cu ₂ OSeO ₃	Lukas Heinen
Spin dynamics and anomalous anisotropy gap in the metallic perovskite ${\rm SrRuO_3}$	Kevin Jenni
Unravelling the fingerprints of the charge density wave in VSe ₂ by scanning tunneling spectroscopy	Timo Knispel
Observation of the Higgs mode in the superfluid BCS-BEC crossover in Fermi gases	Johannes Kombe
THz quadrochroism in chiral $\mathrm{Ni_3TeO_6}$ in magnetic field	Malte Langenbach, David Maluski
Transport spectroscopy of 3D Dirac materials	Henry Legg
MBE grown ultrathin films of a magnetically doped topological insulator	Gertjan Lippertz
j=1/2 on an fcc lattice: double perovskite Ba ₂ CelrO ₆	Chinchyi Loo, Alessandro Revelli
Growth and characterization of BiTe _x Se _{1-x} topological-insulator nanowires	Felix Münning
Giant microwave magneto-conductivity in the compensated topological insulator BiSbTeSe2	Lea Pitz-Paal
RIXS on face-sharing and edge-sharing iridates	Alessandro Revelli
Spin Liquids and Functional RG in Momentum Space	Dietrich Roscher
Optically driven magnetization dynamics and coherent spin excitation in the cycloid and skyrmion-lattice phases of GaV ₄ S ₈	Fumiya Sekiguchi
Fermion-induced quantum criticality with two length scales and emergent symmetries in Dirac systems	Emilio Torres
Spin-lattice relaxation in the spin cluster magnet Cu ₂ OSeO ₃	Rolf Versteeg
Non-linear optical response of SrCuO2	Philipp Warzanowski
Luttinger liquid in a box: spectral signature of spin-charge separation in Mo ₂ mirror twin boundaries	Philipp Weiß
Competition between Kondo and Kitaev physics in a frustrated quantum impurity coupled to a metallic host	Tathagata Chowdhury

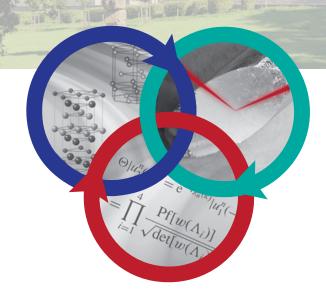




INTERNATIONAL CONFERENCE

Control and Dynamics of Quantum Materials

Spin-orbit Coupling, Correlations, and Topology



Sept. 10–12th, 2018 Kardinal-Schulte-Haus Bensberg, Germany

crc1238.uni-koeln.de/conference









MON	DAY Sept.10
8:00	Breakfast
9:20	Welcome
9:30	Yoshinori Tokura Topological phase transitions in m topological insulators
10:00	Leon Balents Topological aspects of flat bands bilayer graphene
10:30	Coffee
11:00	Yuichi Kasahara Half-integer thermal quantum Ha a Kitaev spin liquid: A signature o Majorana edge current
11:30	Lucile Savary Surprising transport signatures in n
12:00	Yuval Winkler Approximately quantized therma effect of chiral liquids coupled to
12:30	Lunch break
14:30	Jeroen van den Brink RIXS on iridates and cuprates
15:00	Markus Grüninger RIXS on face-sharing and edge-shiridates
15:30	Coffee
16:00	Roser Valenti

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9:30	Yoshinori Tokura Topological phase transitions in magnetic topological insulators
10:00	Leon Balents Topological aspects of flat bands in twisted bilayer graphene
10:30	Coffee
11:00	Yuichi Kasahara Half-integer thermal quantum Hall effect in a Kitaev spin liquid: A signature of chiral Majorana edge current
11:30	Lucile Savary Surprising transport signatures in magnets
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14:30	Jeroen van den Brink RIXS on iridates and cuprates
15:00	Markus Grüninger RIXS on face-sharing and edge-sharing iridates
15:30	Coffee
16:00	Roser Valenti Field- and Pressure-induced phases in generalized Kitaev models and materials
16:30	Johannes Knolle Dynamics of Kitaev Spin Liquids
17:00	Ciaran Hickey Field-Driven U(1) Quantum Spin Liquid in Kitaev Systems
17:30	Break
18:00	Dinner
19.30	Postersession

TUESDAY Sept.11

8:00	Breakfast
9:00	Yong-Baek Kim Emergent phenomena in a quantum spin liquid with spin-orbit coupling
9:30	Philipp Gegenwart Low-energy excitations in the triangular anti ferromagnet YbMgGaO4
10:00	Jun Zhao Spin correlations in rare-earth triangular lattice antiferromagnets
10:30	Coffee
11:00	Satoru Nakatsuji Giant anomalous electrical responses and their control in Weyl Antiferromagnets
11:30	Thomas Lorenz Magnetic-field induced quantum phase transitions in spin-1/2 XXZ chain materials
12:00	Oliver Breunig Charge Puddles in Topological Insulators
12:30	Lunch break
14:30	Alexander Brinkman 4pi-periodic Andreev bound states in a Dirac semimetal
15:00	Maria Daghofer Excitations of excitonic quantum magnets
15:30	Coffee
16:00	Clifford Murray Tomonaga-Luttinger liquid in a box: electro confined within MoS2 mirror twin boundaries
16:30	Nicolae Atodiresei Hybrid Interfaces: Structural and Electronic Properties
17:00	Boris Senkovskiy Boron-doped graphene nanoribbons: electronic structure and Raman fingerprint
17:30	End sessions
18:00	Biergarten

WEDNESDAY Sept.12

8:00	Breakfast
9:00	Christian Pfleiderer Experimental studies of quantum materials far from equilibrium
9:30	Dennis Meier Domain walls as functional topological nano-elements
10:00	Jan Müller Skyrmions and topological domain wallss
10:30	Coffee
11:00	István Kézsmárki Magnetoelectric effect of skyrmions
11:30	Rolf Versteeg Spin-lattice relaxation in the spin cluster magnet Cu ₂ OSeO ₃
12:00	Maxim Mostovoy Electric excitation of topological magnetic defect
12:30	Lunch break
14:00	Sang-Wook Cheong Topological vortex domains in quantum materials
14:30	Ionela Lindfors Vrejoiu Magnetic order and magneto-transport in SrRuO ₃ -based epitaxial heterostructures
15:00	Coffee
15:30	Yoshiteru Maeno Non-equilibrium steady state (NESS): a new approach to control Mott insulators
16:00	Yoichi Ando Quest for Topological Superconductivity
16:30	Conclusion
17:00	Good Bye