

Mo 9 Sept		
12.00-13.15	Lunch buffet	
13.15-13.20	Oliver Rader, HZB	Welcome
13.20-13.30	Marc Zastrow, Wiley	Information on the special issue in phys. stat. sol. (b)
13.30-15.30	"Special Guests" Session	
13.30	Arun Bansil, Northeastern Univ. Boston	Towards a first-principles description of stronger correlations: Novel superconductors to topological materials
14.00	Alexei Fedorov, ALS Berkeley	Advanced Light Source: what light from a billion suns can do for your research
14.30	Young P. Chen, Purdue University	Topological protection in topological insulator based spintronic and Josephson devices
15.00	Ulrich Höfer, Philipps-Universität Marburg	Band structure movies of THz-driven currents in a topological surface state
15.30-16.00	Coffee break	
16.00-18.30	Topological phases in 2D and 3D	
16.00	Tomáš Rauch, FSU Jena	Topological phases of diamond and zinc-blende semiconductors
16.30	Piet Brouwer FU Berlin	Topological insulators with higher-order boundary states
17.00	Artem Pronin, University of Stuttgart	Optical properties of nodal semimetals
17.30	Thomas Dziuba, IV. Physik – University of Göttingen	Surface Conductivity of the Correlated Oxide Honeycomb Alkali Metal Iridates
18.00	Björn Trauzettel, University of Würzburg	Majorana fermions and parafermions in superconducting constrictions at the helical edge
18.30	Cosimo Gorini, University of Regensburg	Magnetoconductance, QHE, and Coulomb Blockade in Topological Insulator Nanocones
19.15	- transfer to dinner	
19.30	Dinner	
22.00	- transfer to hotels	
Tu 10 Sept		
7:30	- transfer to HZB (from Kongresshotel Potsdam only)	
09.00-10.30	STM	
09.00	Steffen Wirth, CPFS	Surface states in SmB6
09.30	Matthias Bode, University of Würzburg	An STM view on clean and magnetically doped topological materials
10.00	Philipp Rübmann, FZ Jülich	Spin scattering of topologically protected electrons off defects
10.30-11.00	Coffee break	
11.00-12.30	Transport	
11.00	Shaham Jafarpisheh, RWTH Aachen University	Spin transport in Bi-based topological insulators
11.30	Saqib Shamim, University of Würzburg	Realizing the full potential of edge channel transport in HgTe based 2D topological insulator
12.00	Joseph Dufouleur, IFW Dresden	Quantum transport in topologically nontrivial materials
12.30-13.30	Lunch buffet	

SPP1666 Topins

Program (version: 4. 9 .2019)

9-11. Sept. 2019, HZB/Wannsee
address: Hahn-Meitner-Platz 1, 14109 Berlin

13.30-15.30	Proximity and Majorana fermions I	
13.30	Anna Isaeva; TU & IFW Dresden	New layered Bi-based topological materials
14.00	Thomas Schmidt, Uni Luxembourg	Interactions in helical electron systems
14.30	Gregor Mussler, FZ Jülich	Majorana physics in TI/SC junctions
15.00	Jens Wiebe, University of Hamburg	Investigation of spin order and superconductivity in thin-film iron-based superconductors on topological insulators
15.30-16.00	Coffee break	
16.00-17.00	Poster Session	
17.00-19.00	Proximity and Majorana fermions II	
17.00	Jinfeng Jia, Shanghai Jiao Tong University	Majorana zero mode in the vortex
17.30	Ilya Eremin, Ruhr-University Bochum	Magnetic skyrmions at topological insulator surfaces
18.00	Stefan Rex, KIT	Majorana bound states in magnetic skyrmions imposed onto a superconductor
18.30	Jaroslav Fabian, University of Regensburg	Topological states in 2D materials and proximity effects from TIs
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We 11 Sept		
7:30	- transfer to HZB (from Kongresshotel Potsdam only)	
09.00-10.30	Photoinduced transport	
09.00	Nina Meyer, University Greifswald	Laser induced photocurrents in 3D topological insulators Hall bar and nanowire devices
09.30	Christoph Kastl, TUM – WSI	Helical and quantized photocurrents in topological vdW materials
10.00	Sergey Ganichev, University of Regensburg	Photocurrents of Dirac Fermions in topological insulators
10.30-11.00	Coffee break	
11.00-12.30	Electron spectroscopy	
11.00	Jürgen Braun, LMU Munich	Spectroscopic properties of TI and Heusler systems discovered with IPE, ARPES and 2PPE
11.30	Lukasz Pluczinski, FZ Jülich	Band structure engineering in 3D topological insulators
12.00	Oliver Rader, HZB	Large magnetic bandgap at the Dirac point in a topological insulator heterostructure
12.30-13.30	lunch buffet	
13.30	departure	

version 7 as of 6 Sept; changes with respect to version 6 as of 5 Sept.:

Mo 15:30 moved to 13:20, Tu 18:30 exchanged with Tu 13:30, corrections to posters

Tu 16.00-17.00		Poster Session
1	Martin Wenderoth, Uni Göttingen	Experimental Evidence of a Correlated Oxide Topological Insulator
2	Matthias Götte, Uni Bielefeld	The Meservey-Tedrow technique applied to surface states of topological insulators
3	Jan Hajer, Uni Würzburg	Proximity induced superconductivity in HgTe nanowire shells
4	Arthur Veyrat, IFW Dresden	Superconductivity in a Weyl semimetal
5	Johannes Ziegler, Uni Regensburg	Probing spin helical surface states in topological HgTe nanowires
6	Saskia Fischer, HU Berlin	2D-layered transport properties of topological insulators
7	Christian Riha, HU Berlin	Transport properties of V-doped BiSeTe
8	Chi-Nan Wu, MPI CPfS Dresden	Topological insulator on ferromagnetic insulators: Bi ₂ Te ₃ on magnetite and iron garnets
9	Jakob Walowski, Greifswald University	Laser Induced Photocurrents in Ferromagnet-Topological Insulator Heterostructures
10	Arthur Ernst, JKU Linz & MPI Halle	Exchange interaction in magnetic topological insulators and related materials
11	Holger Meyerheim, MPI Halle	Gap formation in doped surfaces of Bi ₂ Se ₃ (0001)