

SPP1666 Kickoff II

Place: THE SQUAIRE conference center, Frankfurt airport
Room Koons K1+K2
Date: Tuesday 4 October 2016

12:00 Get-together lunch (buffet lunch)
13:00 Oliver Rader: Welcome
13:15 Short talks (15 min each)
Saskia Fischer: Landau levels in Bi₂Se₃ topological insulator single crystals
13:30 Flavio Nogueira: Magnetic proximity effect in 3D topological insulators
13:45 Felix von Oppen: Parity anomaly and spin transmutation in quantum spin Hall Josephson junctions
14:00 Peter Lemmens: Spectroscopic studies of topological semiconductors and semimetals
14:15 Coffee break
14:30 Poster Session
17:00 End

WLAN access:

Netzwerk REGUSNETWIFI_2797
Passwort 63718480

List of participants

Name		Institute
Simone	Altendorf	Max Planck Institute for Chemical Physics of Solids
Gustav	Bihlmayer	Forschungszentrum Jülich
Christoph	Brüne	Experimentell Physik 3 Universität Würzburg
Hartmut	Buhmann	Physikalisches Institut, Universität Würzburg
Marco	Busch	Humboldt-Universität zu Berlin, Institut für Physik
Lasse	Cornils	Universität Hamburg
Michael	Czerner	Justus Liebig University Giessen
Saskia F.	Fischer	Humboldt-Universität zu Berlin, Institut für Physik
Philipp	Gegenwart	Experimentalphysik 6, EKM, Institut für Physik, Universität Augsburg
Cosimo	Gorini	Universität Regensburg
Jens	Güdde	FB Physik, Philipps-Universität Marburg
Philip	Hofmann	Aarhus University
Alexander	Holleitner	Technical University of Munich
Anna	Isaeva	Technische Universität Dresden
Shaham	Jafaripisheh	2nd Institute of Physics A, RWTH Aachen University
Robin	Klett	Universität Bielefeld
Fabian	Lambert	Ruhr-Universität Bochum
Peter	Lemmens	IPKM, TU Braunschweig
Partha S.	Mandal	HZB
Phivos	Mavropoulos	IAS-1, Forschungszentrum Jülich
Holger	Meyerheim	Max-Planck-Institut Halle
Markus	Münzenberg	Ernst-Moritz-Arndt University Greifswald

Gregor	Mussler	Forschungszentrum Jülich
Chengwang	Niu	Forschungszentrum Jülich
Flavio	Nogueira	IFW Dresden
Lukasz	Plucinski	PGI-6 FZ Juelich
Oliver	Rader	HZB
Tomáš	Rauch	MLU Halle-Wittenberg
Johannes	Reimann	Philipps-Universität Marburg
Günter	Reiss	Bielefeld University
Ellen	Reister	Deutsche Forschungsgemeinschaft
Sahana	Roessler	Max Planck Insitute for Chemical Physics of Solids
Victor	Rogalev	University of Wuerzburg, Experimentelle Physik IV
Philipp	Rüßmann	Forschungszentrum Jülich
Joerg	Schaefer	Universität Würzburg
Andy	Thomas	IFW Dresden
Liu Hao	Tjeng	Max Planck Institute for Chemical Physics of Solids, Dresden
Niccolò	Traverso Ziani	Universitaet Wuerzburg
Felix	von Oppen	Freie Universität Berlin
Martin	Wenderoth	University of Göttingen, 4. Physikalisches Institut
Jens	Wiebe	INF, Universität Hamburg
Yuan	Yan	Experimentelle Physik III, Würzburg University
Hongbin	Zhang	TU Darmstadt

version 2, as of 3 Oct 2016 (changes in participant list)

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Poster No.	Name	Institute	Title
Growth			
1	Simone Altendorf	Max Planck Institute for Chemical Physics of Solids	Interfacing superconductors and ferromagnets with topological insulators using all in-situ/ultra high vacuum processes
2	Anna Isaeva	Technische Universität Dresden	A quest for topological insulators in bismuth-iodine systems: new strong and weak 3D TI and TCI materials
3	Gregor Mussler	Forschungszentrum Jülich	Molecular-beam epitaxy of topological insulator / superconductor junctions
4	Joerg Schaefer	Universität Würzburg	Synthesis and Spectroscopy of Bismuthene
Spectroscopy			
5	Peter Lemmens	IPKM, TU Braunschweig	Spectroscopic studies of topological semiconductors and semimetals
6	Partha Mandal S.	HZB	Quantum Phase Transition from Mirror to Time Reversal Symmetry Protected Topological Insulator
7	Lukasz Plucinski	PGI-6 FZ Juelich	Spectroscopic insight into current-induced spin-transfer torques in ferromagnet/topological insulator interfaces
Scanning tunneling microscopy			
8	Sahana Roessler	Max Planck Institute for Chemical Physics of Solids	Scanning tunneling microscopy and spectroscopy on Kondo insulators.
9	Martin Wenderoth	University of Göttingen	Probing predicted topological surface states of correlated transition-metal oxides
10	Jens Wiebe	Universität Hamburg	Iron-based superconductors on topological insulators investigated by spin-resolved scanning tunneling spectroscopy
11	Lasse Cornils	Universität Hamburg	Evidence for a two-fold symmetric superconducting gap in a monolayer of FeSe _{0.5} Te _{0.5} on a topological insulator

Dynamics

12	Jens	Güdde	Philipps-Universität Marburg	Ultrafast dynamics of photocurrents in the topological surface state of Sb ₂ Te ₃ following direct optical excitation with midinfrared pulses
13	Alexander	Holleitner	Technical University of Munich	On-chip THz-generation by single topological Bi ₂ Te ₂ Se-nanowires with a prevailing surface photoconductance
14	Markus	Münzenberg	Ernst-Moritz-Arndt University Greifswald	Ultrafast Spin Dynamics in Topological Insulators and Hybrid Structures at Driven by Light

Transport

15	Christoph	Brüne	Universität Würzburg	Magnetotransport in magnetically doped topological insulators
16	Hartmut	Buhmann	Universität Würzburg	Controlled Spin and Charge Currents in Surface States of a Topological Insulator
17	Marco	Busch	Humboldt-Universität zu Berlin	Landau levels in Bi ₂ Se ₃ topological insulator single crystals
18	Shaham	Jafarpisheh	RWTH Aachen University	Spin transport studies in bottom-up fabricated 3D topological-insulator devices
19	Robin	Klett	Universität Bielefeld	Strong proximity-induced superconductivity & quantum interference in topological crystalline insulator SnTe devices

Theory

20	Cosimo	Gorini	Universität Regensburg	Magnetotransport in 3D topological insulator nanowires
21	Fabian	Lambert	Ruhr-Universität Bochum	Quasiparticle interference of surface states in strongly correlated topological insulators
22	Phivos	Mavropoulos	Forschungszentrum Jülich	Spin Scattering of Topologically Protected Electrons off Defects
23	Chengwang	Niu	Forschungszentrum Jülich	Topological Transitions from first principles
24	Tomáš	Rauch	MLU Halle-Wittenberg	Topological semimetal phases in HgTe-related alloys: Berryology and surface transport
25	Niccolò	Traverso Ziani	Universitaet Wuerzburg	The chiral anomaly in real space
26	Felix	von Oppen	Freie Universität Berlin	Parity anomaly and spin transmutation in quantum spin Hall Josephson junctions
27	Hongbin	Zhang	TU Darmstadt	Topological phases in XMnY ₂ (X=Ca, Sr, and Ba; Y=Sb and Bi)