

Young researchers workshop on Topology in modern condensed matter physics and beyond: from fundamentals to quantum applications (TU München, Physik-Department, Garching)		
Wednesday 06.10.		
Center for Nanotechnology and Nanomaterials (ZNN), Am Coulombwall 4a, Garching		
12:00 - 13:30	Arrival in Garching, registration, lunch provided (ZNN)	
Physik Department, Hörsaal 1, James-Franck-Straße 1, Garching		
13:45 Welcome		
14:00 - 14.40	Martin Stehno, Uni Würzburg	Gate-tunable superconductivity in topological materials
14.40 - 15.20	Irene Aguilera, FZ Jülich	First-principles quasiparticle studies of topological materials
15.20 - 16.00	Christoph Kastl, TU München	Van der Waals heterostructures with topological materials
16.00 - 16.30	Coffee break (ZNN)	
16.30 - 17.10	Felix Lüpke, FZ Jülich	Layered topological insulators and proximity effects studied by scanning tunneling microscopy
17.10 - 17.50	Philipp Rüßmann, FZ Jülich	Ab initio calculations for superconductivity and topology
Center for Nanotechnology and Nanomaterials, Am Coulombwall 4a, Garching		
18.00 - 20.30	Dinner + Poster Session (ZNN)	
Thursday 07.10.		
Physik Department, Hörsaal 1, James-Franck-Straße 1, Garching		
09.00 - 09.40	Tobias Meng, TU Dresden	From inhomogenous Weyl semimetals to black holes
09.40 - 10.20	Joseph Dufouleur, IFW Dresden	(online) Disorder and topology in WTe_2
10.20 - 11.00	Chris Trummer, TUM	TUM Venture Lab Quantum

11.00 - 11.30	Coffee break (ZNN)	
11.30 - 12.10	Lukas Janssen, TU Dresden	Topological phases of matter in frustrated quantum magnets
12.10 - 12.50	Titus Neupert, UZH	Correlated Kagome Metals
13.00 - 14.00	Lunch break (Campus Pizzeria, Black to Gold)	
14.00 - 14.40	Elio König, MPI Stuttgart	Topological non-linear transport and optics
14.40 - 15.20	Roman Riwar, FZ Jülich	Transport topological phase transitions
15.20 - 16.00	Coffee break (ZNN)	
16.15 - 16.30	Jannis Neuhaus- Steinmetz, Uni Hamburg	Magnetic ground states of topologically superconducting atomic chains
16.30 - 16.45	Maanwinder Partap Singh, TU Munich	Impact of domain disorder on optoelectronic properties of semimetal MoTe ₂
16.45 - 17.00	Adamantia Kosma, NKU Athens	Spin-orbit torque on magnetic transition-metal defects in the surface of the topological insulator Bi ₂ Te ₃
Dinner and Networking (19.00, Augustiner Klosterwirt, Augustinerstraße 1, Munich)		
Friday 08.10.		
09.00 - 11.00	Individual discussions	
11.00	Departure	