

Program

<p>Young researchers workshop on Topology in modern condensed matter physics and beyond: from fundamentals to quantum applications (TU München, Physik-Department, Garching)</p>		
<p><i>Wednesday 06.10.2021</i></p>		
<p>Center for Nanotechnology and Nanomaterials, Am Coulombwall 4a, Garching</p>		
<p>12:00 - 13:30</p>	<p>Arrival in Garching, registration, lunch provided</p>	
<p>Physik Department, Hörsaal 1, James-Franck-Straße 1, Garching</p>		
<p>13:45 Welcome</p>		
<p>14:00 - 14.40</p>	<p>Martin Stehno, Uni Würzburg</p>	<p>Gate-tunable superconductivity in topological materials</p>
<p>14.40 - 15.20</p>	<p>Irene Aguilera, FZ Jülich</p>	<p>First-principles quasiparticle studies of topological materials</p>
<p>15.20 - 16.00</p>	<p>Christoph Kastl, TU München</p>	<p>Van der Waals heterostructures with topological materials</p>
<p>16.00 - 16.30</p>	<p>Coffee break</p>	
<p>16.30 - 17.10</p>	<p>Felix Lüpke, FZ Jülich</p>	<p>Layered topological insulators and proximity effects studied by scanning tunneling microscopy</p>
<p>17.10 - 17.50</p>	<p>Philipp Rüßmann, FZ Jülich</p>	<p>Ab initio calculations for superconductivity and topology</p>
<p>Center for Nanotechnology and Nanomaterials, Am Coulombwall 4a, Garching</p>		
<p>18.00 - 20.30</p>	<p>Dinner + Poster Session</p>	

<i>Thursday 07.10.2021</i>		
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	Disorder and topology in WTe_2
10.20 - 11.00	Chris Trummer, TU München	TUM Venture Lab Quantum
11.00 - 11.30	Coffee break	
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	
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	
16.00 - 16.30	Paul Seifert, ICFO Barcelona	Berry curvature induced optoelectronic response in WTe_2
16.30 - 16.45	Jannis Neuhaus- Steinmetz, Uni Hamburg	Magnetic ground states of topologically superconducting atomic chains
16.45 - 17.00	Maanwinder Partap Singh, TU München	Impact of domain disorder on optoelectronic properties of semimetal $MoTe_2$
17.00 - 17.15	Adamantia Kosma, NKU Athens	Spin-orbit torque on magnetic transition-metal defects in the surface of the topological insulator Bi_2Te_3
Dinner and Networking (Munich)		
<i>Friday 07.10.2021</i>		
09.00 - 11.00	Individual discussions	
11.00	Departure	