

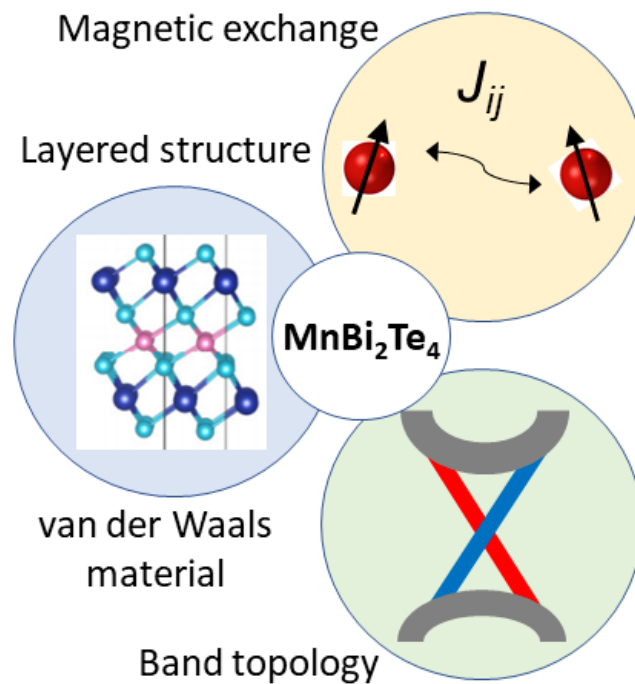


ct.qmat

Complexity and Topology
in Quantum Matter

ct.qmat internal workshop

MnBi₂Te₄-based magnetic topological insulators



18 – 19th of March 2021

Thursday (18.03)		
Time	Title	Speaker
09:10 - 09:20	Introduction to the Cluster	Ralph Claessen
09:20 - 09:30	Overview on intrinsic magnetic TIs	Hendrik Bentmann
09:30 - 10:30	Invited talk: Self-assembled magnetic topological heterostructures	Toru Hirahara
10:30 - 11:00	Observation of the antiferromagnetic order in MnBi_2Te_4 film grown by molecular beam epitaxy	Nan Liu
11:00 - 11:30	Coffee break	
11:30 - 12:00	Accessing surface magnetic properties of MnBi_2Te_4 by X-ray spectroscopy and thin-film growth	Philipp Kagerer
12:00 - 12:30	Synthesis and Structure Elucidation of new MnBi_2Te_4 Analogues	Laura Folkers
12:30 - 14:00	Lunch break	
14:00 - 15:00	Invited talk: Ferromagnetic intrinsic topological insulators MnBi_2Te_4 / Bi_2Te_3 and MnSb_2Te_4	Oliver Rader
15:00 - 15:30	Finite temperature fluctuation-induced order and responses in magnetic topological insulators	Marius Scholten
15:30 - 16:00	Topological electronic structure of the intrinsic magnetic topological insulators $(\text{MnBi}_2\text{Te}_4)(\text{Bi}_2\text{Te}_3)_n$, $n = 0,1,2$ – orbital complexity, spin texture and temperature dependency	Raphael C. Vidal
16:00 - 16:30	Coffee break	
16:30 - 17:10	Special talk: Electron spin resonance as a powerful tool to study static and dynamic magnetism in $(\text{MnBi}_2\text{Te}_4)(\text{Bi}_2\text{Te}_3)_n$	Alexey Alfonsov
17:10 – 17:40	Electron Spin resonance (ESR) spectroscopy of magnetic topological insulator MnBi_2Te_4 and MnBi_4Te_7 at high magnetic fields	Kavita Mehlawat

Friday (19.03)		
Time	Title	Speaker
10:00 - 10:30	Tailoring spin-orbit torque and anisotropic magnetoresistance in topological insulator thin films	Ali G. Moghaddam
10:30 - 11:00	Meta-magnetism of Weakly Coupled Antiferromagnetic Topological Insulators	Aoyu Tan
11:00 - 11:30	Coffee break	
11:30 - 12:00	Probing MnBi_4Te_7 under hydrostatic pressure	Bastian Rubrecht
12:00 - 12:30	Ground-state properties of the intrinsic magnetic topological insulator $\text{MnBi}_6\text{Te}_{10}$	Abdul Tcakaev