

QMA Fall School

Topological Quantum Matter 2023

September 27 - 29, 2023

Penta Hotel in Leipzig



ct.qmat

**Complexity and Topology
in Quantum Matter**

Wednesday, September 27	
13:00 - 14:00	Arrival
14:00 - 14:10	Welcome note from organisers
14:10 - 14:30	Introduction to QMA/ct.qmat by Matthias Vojta <i>“Complexity and Topology – The Next 10 Years”</i>
14:30 - 16:00	Frédéric Mila <i>“Introduction to Frustrated Magnetism”</i>
16:00 - 16:30	Coffee Break
16:30 - 18:00	Felix Lüpke <i>“Van-der-Waals-Materials and Heterostructures studied by Scanning Tunneling Microscopy”</i>
18:30 - 20:00	Dinner
20:00 –	Poster Session
Thursday, September 28	
07:00 - 08:30	Breakfast
08:30 - 10:00	Natalia Chepiga <i>“Chiral Transitions in Arrays of Rydberg Atoms”</i>
10:00 - 10:30	Coffee Break
10:30 - 12:00	Thierry Giamarchi <i>“An Introduction to Quantum Transport in Cold Atomic Gases”</i>
12:00 - 13:30	Lunch
13:30 - 15:00	Alexander B. Khanikaev <i>“Adiabatic Topological Photonics”</i>
15:00 - 15:20	Coffee Break
15:20 - 16:50	Weiwei Xie <i>“Exploring Novel Quantum Materials under High Pressure and High Temperature”</i>
17:00 - 19:00	City Tour
19:00 –	Conference Dinner in Auerbachs Keller
Friday, September 29	
07:00 - 08:30	Breakfast
08:30 - 10:00	Michael Sentef <i>“Light-Matter Control of Quantum Materials”</i>
10:00 - 10:30	Coffee Break
10:30 - 12:00	Philip J. W. Moll <i>“The Unusual Electron Transport in Metallic Kagome Nets ”</i>
12:00 - 14:00	Lunch
14:00 - 14:30	Poster Award, Closing session
14:30	Departure