



# Symposium

# Frontiers of Solid State Theory Part I

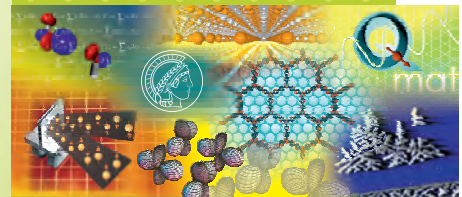
## Program

### Tuesday, April 28, 2026

- 12:00–13:30 *Lunch*
- 13:30–13:45 **Bernhard Keimer** (MPI for Solid State Research)  
Welcome
- 13:45–14:25 **Frank Pollmann** (TU Munich)  
Probing emergent U(1) lattice gauge theories on quantum platforms
- 14:25–15:05 **Pietro Bonetti** (MPI for Solid State Research, Stuttgart)  
Searching for experimental signatures of fractionalization
- 15:05–15:45 **Julia Link** (TU Dresden)  
Superconductivity and Bogoliubov-Fermi-Surfaces
- 15:45–16:30 *Coffee*
- 16:30–17:10 **Agnes Valenti** (Flatiron Inst.)  
A neural-network approach to two-dimensional quantum materials
- 17:10–17:50 **Bartomeu Monserrat** (Cambridge Univ.)  
Excitations with a twist: the geometry and topology of excitons
- 18:30 *Dinner*

### Wednesday, April 29, 2026

- 9:00–9:40 **Johannes Knolle** (TU Munich)  
Unveiling exotic quantum phases of matter
- 9:40–10:10 **Miguel Marques** (Univ. Bochum)  
Machine-learning accelerated discovery of novel quantum materials
- 10:10–10:45 *Coffee*
- 10:45–11:25 **Jenny Coulter** (Flatiron Inst.)  
Electron-phonon interactions in correlated materials from Dynamical Mean-Field Theory
- 11:25–12:05 **Hanna Türk** (EPFL)  
Atomistic insights on surface and interface dynamics causing material degradation
- 12:05 *Lunch*



April 28 – 29  
2026  
Lecture Hall  
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