

Topological Physics in Condensed Matter Theory

Birmingham, 23 & 24 April

Thursday 23 April

12:30-14:00 **Arrival**

14:00-14:40 Robert-Jan Slager (University of Manchester)

Multi-gap topology, Quantum geometry and topological projected entangled pair ground states

14:40-15:00 Frank Kruger (University College London)

Nature of the Topological Transition of the Kitaev Model in [111] Magnetic Field

15:00-16:00 **Tea break & poster session**

16:00-16:40 Adam Gammon-Smith (University of Nottingham)

Probing non-equilibrium topological order on a quantum processor

16:40-17:00 Rebecca Peake (Queen Mary University London)

Engineering Topological Bands in Strained Covalent Organic Frameworks

17:00-17:20 Yoonseok Hwang (Imperial College London)

Symmetry indicators and stable zeros in exciton wavefunctions

Friday 24 April

09:30-10:10 Dan Mao (University of Zürich)

Trimer models revisited: constraint-induced symmetry and super-nematic phases

10:10-10:30 Alexandre Chaduteau (Imperial College London)

Lindbladian versus non-Hermitian Topology

10:30-10:50 George McArdle (University of Nottingham)

Topological Superconductivity in Altermagnetic Heterostructures on a Honeycomb Lattice

10:50-11:20 **Coffee break**

11:20-12:00 Maia Vergniory (Université de Sherbrooke)

A Single-Particle Diagnosis of an Interacting Topological Insulator

12:00-12:20 Dwaipayan Chakrabarti (University of Birmingham)

Tetrahedral Liquids: From a Tale of Two Liquids to a Tale of Topology

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