

**ICMT SUMMER SCHOOL PROGRAM**

	8/8 (Mon)	8/9 (Tue)	8/10 (Wed)	8/11 (Thu)	8/12 (Fri)
9:00-10:00	Lecture 1 Burnell	Lecture 1 Lu	Lecture 1 Mong	Lecture 1 Michalakis	Lecture 1 Levin
10:00-10:30	Break	Break	Break	Break	Break
10:30-11:30	Lecture 2 Burnell	Lecture 2 Lu	Lecture 2 Mong	Lecture 2 Michalakis	Lecture 2 Levin
11:30-13:30	Lunch	Lunch	Lunch	Lunch	Lunch
13:30-14:30	Lecture 3 Mong	Lecture 3 Burnell	Lecture 3 Lu	Lecture 3 Levin	Lecture 3 Michalakis
14:30-15:00	Break	Break	Break	Break	Break
15:00-16:00	Lecture 4 Mong	Lecture 4 Burnell	Lecture 4 Lu	Lecture 4 Levin	Lecture 4 Michalakis
16:00-17:00	Presentation Fujita Panday Gu Y. Wang	Presentation Raza Yamada Kang You	Presentation Zhang H. Wang H. Kim Cheng	Presentation Maximenko Ye Takahashi	Presentation Wu Bi Benalacazar
			Banquet		

**LECTURES**

**Burnell:** Phases beyond the Landau paradigm: topological order and symmetry protection phases

**Mong:** Quantum computation, Toric code

**Lu:** Symmetry enriched topological phases

**Michalakis:** Lieb-Robinson bounds, Quasi-Adiabatic Evolution and stability of topological order

**Levin:** Exactly solvable lattice models for topological phases

## SHORT PRESENTATIONS

**Hiroyuki Fujita:** Fractional quantum Hall states of dipolar fermions in a strained optical lattice

**Mohit Pandey:** Localization of weakly interacting Bose gas in quasiperiodic potential

**Jiaua Gu:** Adiabatic continuity, wavefunction overlap and topological phase transitions

**Yuxuan Wang:** Topological superconductivity near an inversion symmetry breaking order

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**Syed Raza:** Symmetry preserving gapping of Weyl Semimetals

**Masahiko Yamada:** Designing Kitaev spin liquids in metal-organic frameworks

**Byungmin Kang:** Non-ergodic phases from interacting anyons

**Yizhi You:** Condensation of decorated defects, a window to exotic phase of matter

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**Rui-xing Zhang:** "Bilayer graphene as a platform for bosonic symmetry protected topological states".

**Huajia Wang:** "bosonization and mirror symmetry",

**Heejee Kim:** Emergent Spinless Weyl semimetal between the Topological Crystalline Insulator and Normal Insulator Phases with Glide Symmetry

**Ran Cheng:** Magnon Spin Hall Effect in Antiferromagnet

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**Yulia Maximenko:** Fermi level tuning in tellurium based thin films of topological insulators

**Peng Ye:** Charles symmetry and extrinsic twist defect in three spatial dimensions.

**Ryo Takahashi:** Nodal line semimetals arising from crystal symmetry

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**Xiaochuan Wu:** Dynamical Consequence of Quantum Metric in Adiabatic Systems

**Zhen Bi:** Stable Interacting 2+1d Conformal Field Theories at the Boundary of a Class of 3+1d Symmetry Protected Topological Phases.

**Wladimir Benalcazar:** Electric multipole insulators