

PRINCETON CENTER FOR COMPLEX MATERIALS
Princeton Summer School on Condensed Matter Physics

POSTER PRESENTATION SESSION
BOWEN HALL ATRIUM
July 13th, 2023 FROM 3:00 P.M. – 5.00 P.M.

- Poster # : 1
Poster Presenter : Amogh Anakru
Title : Non-Fermi Liquids from Dipolar Symmetry Breaking
Affiliation : Pennsylvania State University, Ph.D. Candidate
- Poster # : 2
Poster Presenter : Arkadiusz Bochniak
Title : Fusion Mechanism and Topological Order in Quantum Hall Fluids
Affiliation : Max Planck Institute of Quantum Optics, Postdoctoral Researcher
- Poster # : 3
Poster Presenter : Peter Ding
Title : Hyperbolic Fringe Signal for Twin Impurity Quasiparticle Interference
topological nodal-line semimetal
Affiliation : Columbia University, Ph.D. Candidate
- Poster # : 4
Poster Presenter : Junkai Dong
Title : Composite Fermi Liquid at Zero Magnetic Field in Twisted MoTe₂
Affiliation : Harvard University, Ph.D. Candidate
- Poster # : 5
Poster Presenter : Yi-Hsien Du
Title : Nonlinear Bosonization of Fermi Surfaces
Affiliation : University of Chicago, Ph.D. Candidate
- Poster # : 6
Poster Presenter : Ruihua Fan
Title : Diagnostics of mixed-state topological order and breakdown of quantum memory
Affiliation : Harvard University, Postdoctoral Researcher
- Poster # : 7
Poster Presenter : Chris Fechisin
Title : Fusion category symmetry-protected topological order in the generalized cluster state
Affiliation : University of Maryland, Ph.D. Candidate
- Poster # : 8
Poster Presenter : Yang Ge
Title : Dynamic Mass Generation and Topological Order in Overscreened Kondo Lattices
Affiliation : University of Cincinnati, Postdoctoral Researcher

Poster # : **9**
Poster Presenter : Jyotsna Gidugu
Title : A study on dissipative models based on Γ -matrices
Affiliation : University of California San Diego, Ph.D. Candidate

Poster # : **10**
Poster Presenter : Sheng-Jie Huang
Title : Topological holography, quantum criticalities, and boundary states
Affiliation : Max Planck Institute for the Physics of Complex Systems, Postdoctoral Researcher

Poster # : **11**
Poster Presenter : Umesh Kumar
Title : Probing fractionalization in quantum magnets using resonant inelastic x-ray scattering
Affiliation : Rutgers University, Postdoctoral Researcher

Poster # : **12**
Poster Presenter : Carlos Lima
Title : The construction of a realistic Hamiltonian for the bosonic Moore-Read Pfaffian state at $\nu=1$
Affiliation : California State University, Long Beach, Ph.D. Candidate

Poster # : **13**
Poster Presenter : Da-Chuan Lu
Title : Fermi Surface Anomaly and Symmetric Mass Generation
Affiliation : UC San Diego, PhD candidate

Poster # : **14**
Poster Presenter : Peizhi Mai
Title : $1/4$ is the new $1/2$: Interaction-induced Unification of Quantum Anomalous and Spin Hall Effects
Affiliation : University of Illinois Urbana-Champaign, Postdoctoral Researcher

Poster # : **15**
Poster Presenter : Benjamin Moy
Title : Theory of Oblique Topological Insulators
Affiliation : University of Illinois Urbana-Champaign, PhD candidate

Poster # : **16**
Poster Presenter : Sal Pace
Title : Emergent generalized symmetries in ordered phases and defect-suppressed disordered
Affiliation : MIT, PhD candidate

Poster # : **17**
Poster Presenter : Archisman Panigrahi
Title : Dislocation as a probe of non-Hermitian topological phases
Affiliation : MIT, PhD candidate

Poster # : **18**
 Poster Presenter : Pratik Sathe
 Title : Strictly Local Flat Hamiltonians are Topologically Trivial
 Affiliation : UC, Los Angeles, PhD candidate

Poster # : **19**
 Poster Presenter : Keshav Singh
 Title : Topological heavy fermions in magnetic field.
 Affiliation : FSU/ National Magnetic Field Laboratory, Tallahassee, PhD candidate

Poster # : **20**
 Poster Presenter : Ophelia Sommer
 Title : Higher Berry Curvatures for Locally Parameterised States
 Affiliation : Harvard University, PhD candidate

Poster # : **21**
 Poster Presenter : Adithya Suresh
 Title : Finding quantum channels with positive tripartite information
 Affiliation : Purdue University, PhD candidate

Poster # : **22**
 Poster Presenter : Siddharth Vadnerkar
 Title : Imparting dynamics to anyons in the generalised toric code model
 Affiliation : UC Davis, PhD candidate

Poster # : **23**
 Poster Presenter : Tianle Wang
 Title : Ground state order in magic-angle graphene at $\nu=-3$: a full-scale density matrix renormalization group study
 Affiliation : UC Berkeley, PhD candidate

Poster # : **24**
 Poster Presenter : Yuan Xue
 Title : Spin polarons in higher Chern bands
 Affiliation : University of Texas at Austin, PhD candidate

Poster # : **25**
 Poster Presenter : Xinghai Zhang
 Title : Fractal superconductivity and magnetism in spectrum-wide quantum critical systems
 Affiliation : Rice University, Postdoctoral Researcher

Poster # : **26**
 Poster Presenter : Evgenii Zheltonozhskii
 Title : Low-Temperature Phases of Dissipative Superconductor--Fractional Quantum Hall Junctions
 Affiliation : Technion, PhD candidate