

7月26日

1. Patrick Ledwith (Harvard)

The geometry of Chern bands in twisted bilayer graphene and implications for fractional Chern insulator phases

2. Jian Kang (Soochow U)

A new perspective on the Bistritzer-MacDonald model and the emergent itinerancy in twisted bilayer graphene

3. Kosuke Mitarai (Osaka U)

Quantum algorithms for quantum many-body systems on near-term quantum computers

4. Zongping Gong (MPIQO)

Topological aspects of quantum cellular automata in one dimension

5. Ruben Verresen (Harvard U)

Towards realizing toric code topological order in the lab

7月27日

6. Fencheng Wu (Wuhan U)

Quantum Simulation in Moiré Bilayers

7. Pavel Volkov (Rutgers U)

Twisted Nodal Superconductors

8. Tatsuya Kaneko (Columbia U)

Light-induced η -pairing in Mott-Hubbard systems

9. Laimei Nie (UIUC)

Many-body quantum chaos: an entanglement perspective

10. Tokiro Numasawa (U Tokyo)

Symmetry breaking, Quantum chaos and wormholes in coupled SYK models

7月28日

11. Satoru Hayami (U Tokyo)

Bottom-up design of momentum-dependent spin-split band structures in spin-orbit-coupling free antiferromagnets

12. Anna Keselman (Technion)

Spectral Signatures of Quasiparticle Interactions in Quantum Spin Chains

13. Owen Benton (MPIPKS)

Routes to Higher-Rank Coulomb Spin Liquids

14. Akito Daido (Kyoto U)

Intrinsic mechanism of superconducting diode effect

15. Shintaro Hoshino (Saitama U)

Interaction and disorder effects on Bogoliubov Fermi surfaces

7月29日

16. Subhro Bhattacharjee (ICTS, Bangalore)

$SU(4)$ Dirac fermions on honeycomb lattice

17. Naoto Shiraishi (Gakushuin U)

Undecidability in quantum thermalization



18. Xueda Wen (Harvard/ U Colorado)

Randomly driven quantum critical systems in (1+1)d

19. Masaya Nakagawa (U Tokyo)

Dissipative Hubbard model: magnetism, superfluid pairing, and exact solution

20. Tsuneya Yoshida (Tsukuba U)

Correlated systems with non-Hermitian topology

7月30日

21. Long Zhang (KITS, University of Chinese Academy of Sciences)

Conformal Boundary Conditions and Boundary Criticality of Symmetric Quantum Spin Chains

22. Yizhi You (Princeton U)

Plaquette-dimer liquid beyond renormalization

23. Adrian (Hoi-Chun) Po (HKUST)

Symmetric Jordan-Wigner transformation in higher dimensions

24. Tatsuhiko Ikeda (U Tokyo)

Nonequilibrium steady states in periodically driven dissipative quantum systems

25. Takashi Mori (RIKEN)

Spectral analysis of the relaxation time in open quantum many-body systems



