

YAN, Yangqian (严杨千)'s Research at CUHK

Cold atom theory (AMO, condensed matter)
mixture of analytical and numerical research



<http://yyan.cf>



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Research Keywords

- Quantum Simulation (gear towards analytics):
Bose-Einstein Condensation, Degenerate Fermi gases, Synthetic Dimension/Gauge Field, Non-Equilibrium Dynamics, Rydberg Atoms, Floquet Theory, Quantum Phase Transitions, Topological Insulator/Chern Number
- Few-body Physics (gear towards numerics):
Strongly Correlated Systems, Cluster/Virial Expansion, Tan Contact, Path Integral Monte Carlo Simulation

Research Highlights

