

BO-HAI LI

Kavli Institute for Theoretical Science, \diamond University of Chinese Academy of Science
(+86)15201410280 \diamond paperonprl@gmail.com

EDUCATION

Tsinghua University, Beijing, China *2014.8 - 2020.10*
Ph.D. in Physics
Institute for Advanced Study
Supervisor: Hong Yao (yaohong@tsinghua.edu.cn)

Tsinghua University, Beijing, China *2010.8 - 2014.7*
B.S
Department of Physics Overall Percentage: 89.1

PROFESSIONAL EXPERIENCE

UCAS *2020.10*
Postdoc Fellow
KITS, Condensed Matter Theory Group

ACADEMIC INTERESTS

Unconventional quantum criticality in strong-correlated systems
Related recent projects: Fermion-induced quantum critical point
Topological order and anyons in quantum spin liquid
Ongoing

PROJECTS AND PUBLICATIONS

[1] **Bo-Hai Li**, Zi-Xiang Li, and Hong Yao. ‘Fermion-induced quantum critical point in Dirac semimetals: A sign-problem-free quantum Monte Carlo study.’ Phys. Rev. B 101(2020), 085105
DOI: 10.1103/PhysRevB.101.085105 (arxiv.org/abs/1910.14287)

SKILLS

Analytical and Numerical Tools	RG, QMC, Quantum Field Theory
Software & Tools	Matlab, Mathematica, Fortran, Python

ACADEMIC EVENTS

American Physical Society March Meeting March 2019
Oral Speaker

- Fermion-induced quantum critical point in Dirac semimetals (See Projects section)

HOBBIES

Archery, Bridge, Chess, Anime