Contact Information
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Education
Ph.D. in Physics, Brown University, USA, 2012
B.S. in Physics, University of Science and Technology of China, China, 2007

Research Interests
Topological phases of matter
Strongly correlated systems
Transport in mescoscopic systems
Nonequilibrium statistical mechanics

Academic Experience
2019 – present, Assistant Professor
Department of Physics, The University of Hong Kong

2018, Assistant Professor
Department of Physics, City University of Hong Kong

2015 – 2018, Postdoctoral Research Fellow
Perimeter Institute for Theoretical Physics

2017 – 2018, Visiting Scientist
Department of Physics, Massachusetts Institute of Technology

2013 – 2015, Postdoctoral Research Associate
James Franck Institute, University of Chicago

2012 – 2013, Postdoctoral Research Associate
Condensed Matter Theory Center, University of Maryland

Honors and Awards
Anthony Houghton Award for Excellence in Theoretical Physics, Brown University, 2012
Sigma Xi Outstanding Graduate Student, Brown University, 2012
Dissertation Fellowship Award, Brown University, 2011
Excellent Undergraduate Thesis Award, USTC, 2007
Outstanding Student Scholarship, USTC, 2004 –2006

Publications

18. Loop braiding statistics and interacting fermionic symmetry-protected topological phases in three dimensions
M. Cheng, N. Tantivasadakarn, and **C. Wang**, Phys. Rev. X 8, 011054 (2018)

17. Anomaly indicators for time-reversal symmetric topological orders
C. Wang and M. Levin, Phys. Rev. Lett. 119, 136801 (2017)

16. Interacting fermionic symmetry-protected topological phases in two dimensions
C. Wang, C.-H. Lin, and Z.-C, Gu, Phys. Rev. B 95, 195147 (2017) (*Editors' Suggestion*)

15. Fermion condensation and gapped domain walls in topological orders
Y. Wan and **C.Wang**, J. High Energ. Phys. (2017) 2017: 172

14. Braiding statistics and classification of two-dimensional charge-$2m$ superconductors
C. Wang, Phys. Rev. B 94, 085130 (2016)

13. Bulk-boundary correspondence for three-dimensional symmetry-protected topological phases
C. Wang, C.-H. Lin, and M. Levin, Phys. Rev. X 6, 021015 (2016)

12. Fluctuation relations for spin currents
C. Wang and D. E. Feldman, Phys. Rev. B 92, 064406 (2015)

11. Topological invariants for gauge theories and symmetry-protected topological phases
C. Wang and M. Levin, Phys. Rev. B 91, 165119 (2015) (*Editors' Suggestion*)

10. Braiding statistics of loop excitations in three dimensions
C. Wang and M. Levin, Phys. Rev. Lett. 113, 080403 (2014) (*Editors' Suggestion*)

9. Fluctuation theorems without time reversal symmetry
C. Wang and D. E. Feldman, Int. J. of Mod. Phys. B 28, 1430003 (2014) (*invited review*)

8. Weak symmetry breaking in two dimensional topological insulators
C. Wang and M. Levin, Phys. Rev. B 88, 245136 (2013) (*Editors' Suggestion*)

7. Chirality, causality, and fluctuation-dissipation theorems in non-equilibrium steady states
C. Wang and D. E. Feldman, Phy. Rev. Lett. 110, 030602 (2013)

6. Fluctuation-dissipation theorem for chiral systems in nonequilibrium steady states
C. Wang and D. E. Feldman, Phys. Rev. B 84, 235315 (2011)

5. Rectification in Y-junctions of Luttinger liquid wires
C. Wang and D. E. Feldman, Phys. Rev. B 83, 045302 (2011)

4. Identification of 331 quantum Hall states with Mach-Zehnder interferometry
C. Wang and D. E. Feldman, Phys. Rev. B 82, 165314 (2010)

3. Transport in line junctions of $\nu = 5/2$ quantum Hall liquids
C. Wang and D. E. Feldman, Phys. Rev. B 81, 035318(2010)

2. First-principles study of the lattice and electronic structures of $TbMn_2O_5$
C. Wang, G.-C. Guo, and L. He, Phys. Rev B 77, 134113(2008)

1. Ferroelectricity driven by the noncentrosymmetric magnetic ordering in multiferroic $TbMn_2O_5$: a first-principles study
C. Wang, G.-C. Guo and L. He, Phys. Rev. Lett. 99, 177202 (2007)

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