CURRICULUM VITAE

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Research Interests

- Non-equilibrium systems, quantum thermodynamics, quantum decoherence
- Microscopic quantum devices, Josephson qubits, quantum dots, opto-mechanics
- Quantum correlation, quantum information
- Topological order, Majorana fermion, topological quantum computation

Education & Research Experience

2018~ Assistant Professor
Beijing Institute of Technology, Beijing, China

2015~2018 Postdoctoral Research Associate
Institute of Quantum Science and Engineering, Texas A&M University, USA

2012~2015 Postdoctoral Research Fellow
Beijing Computational Research Center, China

2007~2012 PhD. candidate
Dept. of Physics, Zhejiang University, China

2003~2007 B. Sc. in Physics
Dept. of Physics, Zhejiang University, China

Selective Publications

1. S.-W. Li
   The correlation production in thermodynamics
   Entropy 21, 111 (2019) / arXiv: 1808.00452

2. S.-W Li
   Production rate of the system-bath mutual information
   Phys. Rev. E 96, 012139 (2017) / arXiv: 1612.03884

3. S.-W. Li, Z. H. Wang, L. Zhou, C. P. Sun
   Quantum optics in a non-inertial reference frame: the Rabi splitting in a rotating ring cavity
   arXiv: 1507.08790
4. S.-W. Li, C. Y. Cai, C. P. Sun
   *Steady quantum coherence in non-equilibrium environment*
   Ann. Phys. **360**, 19 (2015) / arXiv: 1407.4290

5. S.-W. Li, Zeng-Zhao Li, C. Y. Cai, C. P. Sun
   *Probing zero modes of a defect in a Kitaev quantum wire*
   Phys. Rev. B **89**, 134505 (2014) / arXiv: 1311.6302

6. Y.-X. Chen, S.-W. Li
   *Quantum refrigerator driven by current noise*
   Europhys. Lett. **97**, 40003 (2012) / arXiv: 1104.2363

7. Y.-X. Chen, S.-W. Li
   *Quantum correlations in topological quantum phase transitions*
   Phys. Rev. A **81**, 032120 (2010) / arXiv: 0912.3874