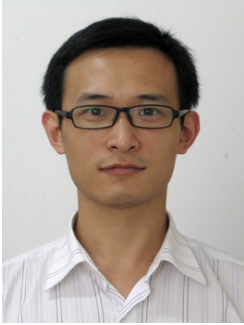


CURRICULUM VITAE



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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**
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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](#)