LIN-HU LI

Curriculum Vitae

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Simulation of Physical Systems Division,
Beijing Computational Science Research Center,
Building 9, East Zone, ZPark II, No.10 East Xibeiwang Road,
Haidian District, Beijing 100193, China

Phone: +86-18611452001
Email: rubilacxelee@gmail.com
Lilinhu@csrc.ac.cn

PERSONAL INFORMATION

Chinese Name:	李林虎	Date of Birth:	January 16, 1987
Gender:	Male	Family Statues:	Married
Nationality:	P. R. China	Dependents:	None
Languages:	Mandarin (mother tongue) Cantonese English		

EDUCATION & FELLOWSHIPS

07/2015 - Now	*Postdoctoral fellow* Beijing Computational Science Research Center (Beijing, China) Supervisor: Prof. Stefano Chesi Instituto Superior Técnico, Universidade de Lisboa (Lisbon, Portugal) Supervisor: Prof. Pedro Sacramento
09/2010 – 06/2015	*Ph.D. in Theoretical Physics* Institute of Physics, Chinese Academy of Sciences (Beijing, China) Advisor: Prof. Shu Chen
09/2006 – 06/2010	*B. S. in Physics* School of Physics, Nankai University (Tianjin, China)

RESEARCH EXPERIENCE

Topological phases and phase transitions of low dimensional systems.

Physics of two-dimensional materials of transition metal dichalcogenides.

Transport properties of quantum point contact.

LIST OF PUBLICATIONS

1. *Topological insulating phases from two-dimensional nodal loop semimetals*
   L. Li, M. A. N. Araújo
   Phys. Rev. B 94, 165117 (2016).

2. *Strain induced topological phase transition at zigzag edges of monolayer transition-metal dichalcogenides*
   L. Li, E. V. Castro, P. D. Sacramento
   Accepted by Phys. Rev. B. (preprint: arXiv:1607.04337)

3. *Topological invariants for phase transition points of one-dimensional Z_2 topological systems*
   L. Li, C. Yang and S. Chen
   Eur. Phys. J. B, 89, 195 (2016).

4. *Winding numbers of phase transition points for one-dimensional topological systems*
   L. Li, C. Yang and S. Chen
   Europhys. Lett., 112,10004 (2015).

5. *Characterization of topological phase transitions via topological properties of transition points*
   L. Li and S. Chen
   Phys. Rev. B, 92, 085118 (2015).

6. *Hidden-symmetry-protected topological phases on a one-dimensional lattice*
   L. Li and S. Chen
   Europhys. Lett., 109,40006 (2015).

7. *Topological phases of generalized Su-Schrieffer-Heeger models*
   L. Li, Z. Xu and S. Chen
   Phys. Rev., B 89, 085111 (2014).

8. *Wigner crystal versus Fermionization for one-dimensional Hubbard models with and without long-range interactions*
   Z. Xu, **L. Li**, X. Gao and S. Chen
   J. Phys.: Condens. Matter, 25,055601 (2013).

9. *Fractional topological states of dipolar fermions in one-dimensional optical superlattices*
   Z. Xu, **L. Li** and S. Chen
   Phys. Rev. Lett., 110, 215301 (2013).

CONFERENCES

The International Workshop on Spin Coherence and Topological Order in Semiconductor Nanosystems
Beijing, China (Oct. 31- Nov. 4, 2016)

8th Nationwide Workshop on Cold Atoms Physics and Quantum Information for Young Scholars
Hangzhou, Zhejiang, China (Aug. 7-11, 2014)

The 13th International Conference on Condensed Matter Theory and Computational Materials Science
Chengdu, Sichuan, China (July 13-16, 2014)

6th Nationwide Workshop on Cold Atoms Physics and Quantum Information for Young Scholars
Jinhua, Zhejiang, China (Aug. 14-18, 2012)

AWARDS

Commendation prize of "Institute Director Award",
Institute of Physics, Chinese Academy of Sciences, Beijing, China, 2012, 2013 and 2014 (three times)