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博士后	2010-2014	巴黎南大学, 法国
博士	2006-2010	乌得勒支大学, 荷兰
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Lih-King Lim

1000 Talent/ Tenure-Track Research
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Postdoc.	2010-2014	University Paris Sud, France
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Research Focus



研究领域

主要研究凝聚态理论问题：

- 1、量子物态中的拓扑与几何现象
- 2、冷原子中的规范场
- 3、狄拉克体系
- 4、量子相变与量子关联

1. Topological/geometric effects in quantum matter
2. Artificial gauge fields in cold atoms
3. Landau-Zener transitions in Dirac cone systems
4. Quantum phases of matter and correlation effects

Representative Publications



代表出版物

1. G. Montambaux, Lih-King Lim, J.-N. Fuchs, F. Piechon, Winding vector: how to annihilate two Dirac points with the same charge, Phys. Rev. Lett. 121, 256402 (2018)
2. Hui Yang, R. Moessner, Lih-King Lim, Quantum oscillations in nodal line systems, Phys. Rev. B 97, 165118 (2018) [Editors' Suggestion]
3. Lih-King Lim and R. Moessner, Pseudospin vortex ring with a nodal line in three dimensions, Phys. Rev. Lett. 118, 016401 (2017)
4. Lih-King Lim, J.-N. Fuchs, G. Montambaux, Mass and chirality inversion of a Dirac cone pair in Stuckelberg interferometry, Phys. Rev. Lett. 112, 155302 (2014)
5. Lih-King Lim, J.-N. Fuchs, G. Montambaux, Bloch-Zener oscillations across a merging transition of Dirac points, Phys. Rev. Lett. 108, 175303 (2012)
6. Lih-King Lim, C. Morais Smith, A. Hemmerich, Staggered-vortex superfluid of ultracold bosons in an optical lattice, Phys. Rev. Lett. 100, 130402 (2008) Superconductor $K_2Cr_3As_3$, Physical Review Letters 114, 147005 (2015).

