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研究领域

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拓扑量子物态

工作经历

2017-至今 南方科技大学物理系，副教授

2015-2017 华中科技大学物理学院，教授

2013-2015 美国匹兹堡大学物理与天文学系，博士后

2011-2013 日本东京大学物理系，JSPS外国人特别研究员

2009-2011 清华大学物理系，博士后

学习经历

2004-2009 清华大学高等研究院，获博士学位

2000-2004 中山大学物理学系，获学士学位

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2011 入选日本学术振兴会 (JSPS) 外国人特别研究员

代表文章

Researcher ID <http://www.researcherid.com/rid/I-8694-2012> (<http://www.researcherid.com/rid/I-8694-2012>)

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2. Jinlong Yu, Zhi-Fang Xu*, Rong Lu, and Li You, Dynamical generation of topological magnetic lattices for ultracold atoms, Phys. Rev. Lett. 116, 143003 (2016).
3. Xiaoke Li, Bing Zhu, Xiaodong He, Fudong Wang, Mingyang Guo, Zhi-Fang Xu, Shizhong Zhang, and Dajun Wang, Coherent heteronuclear spin dynamics in an ultracold spinor mixture, Phys. Rev. Lett. 114, 255301 (2015).
4. Zhi-Fang Xu, Xiaopeng Li, Peter Zoller, and W. Vincent Liu, Spontaneous quantum Hall effect in an atomic spinor Bose-Fermi mixture, Phys. Rev. Lett. 114, 125303 (2015).
5. Zhi-Fang Xu, Li You, and Masahito Ueda, Atomic spin-orbit coupling synthesized with magnetic-field-gradient pulses, Phys. Rev. A 87, 063634 (2013).
6. Z. F. Xu, Y. Kawaguchi, L. You, and M. Ueda, Symmetry classification of spin-orbit coupled spinor Bose-Einstein condensates, Phys. Rev. A 86, 033628 (2012).
7. Z. F. Xu and L. You, Dynamical generation of arbitrary spin-orbit couplings for neutral atoms, Phys. Rev. A 85, 043605 (2012).
8. Y. C. Liu, Z. F. Xu, G. R. Jin, and L. You, Spin Squeezing: Transforming One-Axis Twisting into Two-Axis Twisting, Phys. Rev. Lett. 107, 013601 (2011).
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12. Z. F. Xu, Yunbo Zhang, and L. You, Binary mixture of spinor atomic Bose-Einstein condensates, Phys. Rev. A 79, 023613 (2009).



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