

W. VINCENT LIU'S PUBLICATIONS

- [1] Z. Zhang, H.-H. Hung, C. M. Ho, E. Zhao, W. V. Liu, “Center-of-mass p -wave fermionic superfluidity,” arXiv:0910.2431
- [2] C. Lin, E. Zhao, W. V. Liu, “Liquid crystal phases of ultracold dipolar fermions on a lattice,” arXiv:0909.5267.
- [3] K. Sun, E. Zhao, W. V. Liu, “Topological phases of dipolar particles in elongated Wannier orbitals,” arXiv:0908.0190
- [4] E. Zhao, X.-W. Guan, W. V. Liu, M. T. Batchelor, M. Oshikawa, “Analytic thermodynamics and thermometry of Gaudin-Yang Fermi gases,” *Phys. Rev. Lett.* **103**, 140404 (2009).
- [5] E. Zhao, W. V. Liu, “Theory of quasi-one dimensional imbalanced Fermi gases,” *Phys. Rev.* **A78**, 063605 (2008).
- [6] V. M. Stojanovic, C. Wu, W. V. Liu, S. Das Sarma, “Incommensurate superfluidity of bosons in a double-well optical lattice,” *Phys. Rev. Lett.* **101**, 125301 (2008). arXiv:0804.3977
- [7] E. Zhao, W. V. Liu, “Orbital order in Mott insulators of spinless p -band fermions”, *Phys. Rev. Lett.* **100**, 160403 (2008). arXiv:0801.0589
- [8] C. Wu, W. V. Liu, J. Moore, S. Das Sarma, “Prediction of quantum stripe ordering in optical lattices”, *Phys. Rev. Lett.* **97**, 190406 (2006). cond-mat/0606743
- [9] W. V. Liu, C. Wu, “Atomic matter of non-zero momentum Bose-Einstein condensation and orbital current order”, *Phys. Rev.* **A74**, 013607 (2006). cond-mat/0601432.
- [10] V. M. Stojanovic, W. V. Liu, Y. B. Kim, “Unconventional interaction between vortices in a polarized Fermi gas”, *Annals of Physics* **323**, 989 (2008). On the arxiv: Short version: cond-mat/0611295; long version: arXiv:0710.2522.
- [11] W. V. Liu, “Effective theory of excitations in a Feshbach resonant superfluid”, *Phys. Rev. Lett.* **96**, 080401 (2006). arXiv: cond-mat/0508139
- [12] W. V. Liu, “Anomalous quantum mass flow of atoms in p -wave resonance”, *Phys. Rev.* **A72**, 053613 (2005). arXiv: cond-mat/0503622
- [13] M. M. Forbes, E. Gubankova, W. V. Liu, and F. Wilczek, “Stability criteria for breached pair superfluidity”, *Phys. Rev. Lett.* **94**, 017001 (2005). arXiv: hep-ph/0405059. (ISI citations as of Nov 2009: **65**). [Reported in **Phys. Rev. Focus** (January 5, 2005)]

- [14] W. V. Liu, F. Wilczek, and P. Zoller, “Spin-Dependent Hubbard Model and a Quantum Phase Transition in Cold Atoms”, *Phys. Rev. A* **70**, 033603 (2004). arXiv: cond-mat/0404478
- [15] E. Gubankova, W. V. Liu, F. Wilczek, “Breached pairing superfluidity: Possible realization in QCD”, *Phys. Rev. Lett.* **91**, 032001 (2003). arXiv: hep-ph/0304016. (ISI citations as of Nov 2009: **76**)
- [16] W. V. Liu, F. Wilczek, “Comment on ‘Superfluidity in the interior-gap states’ by Wu–Yip”. arXiv: cond-mat/0304632.
- [17] W. V. Liu and F. Wilczek, “Interior gap superfluidity”, *Phys. Rev. Lett.* **90**, 047002 (2003). arXiv: cond-mat/0208052. (ISI citations as of Nov 2009: **174**)
- [18] W. V. Liu, F. Wilczek, “Spin-orbit ordering, momentum space coexistence, and cuprate superconductivity”, arXiv: cond-mat/0312685.
- [19] C. Wu and W. V. Liu, “Thermodynamic properties of the d-density wave order in cuprates”, *Phys. Rev. B* **66**, 020511(R) (2002). arXiv: cond-mat/0201120.
- [20] C. Wu, W. V. Liu, and E. Fradkin, “Competing orders in coupled Luttinger liquids”, *Phys. Rev. B* **68**, 115104 (2003). [arXiv: cond-mat/0206248.]
- [21] W. V. Liu and X.-G. Wen, “Spin-disordered superfluid state for spin-1 bosons with fractional spin and statistics”. arXiv: cond-mat/0201187.
- [22] W. V. Liu and E. Fradkin, “Antiferromagnetic spin ladders effectively coupled by one-dimensional electron liquids”, *Phys. Rev. Lett.* **86**, 1865 (2001). cond-mat/0008394 .
- [23] W. V. Liu, “New skyrmions in the attractive Hubbard model with broken SO(4) symmetry”, *Phys. Lett. A* **260**, 94 (1999). arXiv: cond-mat/9903355 .
- [24] W. V. Liu, “Parity breaking and phase transition induced by a magnetic field in superconductors”, *Nucl. Phys. B* **556**, 563 (1999). arXiv: cond-mat/9808134.
- [25] W. V. Liu, “Effective field theory approach to Bose-Einstein condensation”, *Int. J. Mod. Phys. B* **12**, 2103 (1998) (**invited review** article). cond-mat/9711250
- [26] W. V. Liu, “Theoretical study of the damping of collective excitations in a Bose-Einstein condensate”, *Phys. Rev. Lett.* **79**, 4056 (1997). cond-mat/9708080. (ISI citations as of Nov 2009: **60**)
- [27] W. V. Liu and W. C. Schieve, “Comment on ‘Collective Excitations of a Bose-Einstein Condensate in a Magnetic Trap’ ”, arXiv: cond-mat/9702122.

- [28] W. V. Liu and W. C. Schieve, “Quantum chaotic attractor in a dissipative system”, *Phys. Rev. Lett.* **78**, 3278 (1997). arXiv: chao-dyn/9703012 .
- [29] W. Liu, Y. N. Lu, and E. J. Ding, “Dynamical phase transitions and self-organized criticality in a theoretical spring-block model”, *Phys. Rev. E*, **51**, 1916 (1995).
- [30] Y. N. Lu, W. Liu, and E. J. Ding, “Hysteresis in a theoretical spring-block model”, *Phys. Rev. Lett.* **72**, 4005 (1994).