

PUBLICATIONS: NANDINI TRIVEDI

A. Refereed Journal Publications

75. *Dynamical Conductivity across the Disorder-Tuned Superconductor-Insulator Transition* M. Swanson, Y-L Loh, M. Randeria, and N. Trivedi; **Phys. Rev. X** **4**, 021007 (2014).
74. *Effect of Coulomb interactions on the disorder-driven superconductor-insulator transition*, D. Sherman, B. Gorshunov, S. Poran, N. Trivedi, E. Farber, M. Dressel, and A. Frydman; **Phys. Rev. B** **89**, 035149 (2014).
73. *Photon Counting as a Probe of Superfluidity in a Two-Band Bose-Hubbard System Coupled to a Cavity Field*, S. Rajaram and N. Trivedi, **Phys. Rev. Lett.** **111**, 243603 (2013).
72. *Theory of Strain-Controlled Magnetotransport and Stabilization of the Ferromagnetic Insulating Phase in Manganite Thin Films*, A. Mukherjee, W. S. Cole, P. Woodward, M. Randeria, and N. Trivedi; **Phys. Rev. Lett.** **110**, 157201 (2013).
71. Theory of half-metallic double perovskites. I. Double exchange mechanism, O. N. Meetei, O. Erten, A. Mukherjee, M. Randeria, N. Trivedi, and P. Woodward, **Phys. Rev. B** **87**, 165104 (2013).
70. Theory of half-metallic double perovskites. II. Effective spin Hamiltonian and disorder effects, O. Erten, O. N. Meetei, A. Mukherjee, M. Randeria, N. Trivedi, and P. Woodward, **Phys. Rev. B** **87**, 165105 (2013).
69. Theory of High Tc Ferrimagnetism in a Multiorbital Mott Insulator, O. N. Meetei, O. Erten, M. Randeria, N. Trivedi, and P. Woodward **Phys. Rev. Lett.** **110**, 087203 (2013).
68. Novel gapless superfluid phase with spin-dependent disorder, M. Jiang, R. Nanguneri, N. Trivedi, G.G. Batrouni, and R.T. Scalettar, **New J. Phys.** **15**, 023023 (2013).
67. Proposal for interferometric detection of the topological character of modulated superfluidity in ultracold Fermi gases, M. Swanson, Y. L. Loh, and N. Trivedi, **New Journal of Physics**, **14**, 033036 (2012).

66. Diagnostic for phases and quantum critical regions using deviations from the local fluctuation-dissipation theorem, *Eric Duchon, Yasuyuki Kato, and Nandini Trivedi*, **Phys. Rev. A** **86**, 063608 (2012).
65. Bose-Hubbard Models with Synthetic Spin-Orbit Coupling: Mott Insulators, Spin Textures, and Superfluidity, *William S. Cole, Shizhong Zhang, Arun Paramakanti, and Nandini Trivedi*, **Phys. Rev. Lett.** **109**, 085302 (2012).
64. Repulsive fermions in optical lattices: Phase separation versus coexistence of antiferromagnetism and d-wave superfluidity, *Soon Yong Chang, Sandeep Pathak, and Nandini Trivedi*, **Phys. Rev. A** **85**, 013625 (2012).
63. Theory of Half-Metallic Ferrimagnetism in Double Perovskites, *O. Erten, O. Nganba Meetei, Anamitra Mukherjee, Mohit Randeria, Nandini Trivedi, and Patrick Woodward*, **Phys. Rev. Lett.** **107**, 257201 (2011)
62. Fermions in 3D Optical Lattices: Cooling Protocol to Obtain Antiferromagnetism, *Thereza Paiva, Yen-Lee Loh, Mohit Randeria, Richard T. Scalettar, and Nandini Trivedi*, **Phys. Rev. Lett.** **107**, 086401 (2011).
61. Finite-temperature study of bosons in a two-dimensional optical lattice, *Khan W. Mahmud, Eric N. Duchon, Yasuyuki Kato, Naoki Kawashima, Richard T. Scalettar, and Nandini Trivedi*, **Phys. Rev. B** **84**, 054302 (2011).
60. Origin of Excess Low-Energy States in a Disordered Superconductor in a Zeeman Field, *Yen-Lee Loh, Nandini Trivedi, Y. M. Xiong, Philip W. Adams, and G. Catelani*, **Phys. Rev. Lett.** **107**, 067003 (2011).
59. Single and two-particle energy gaps across the disorder-driven superconductor-insulator transition, *Karim Bouadim, Yen Lee Loh, Mohit Randeria, Nandini Trivedi*, **Nature Physics** **7**, 884-889 (2011).
58. Ferromagnetism in repulsive Fermi gases: upper branch of Feshbach resonance versus hard spheres, *S. Y. Chang, M. Randeria, and N. Trivedi*, **Proc. Natl. Acad. Sci (PNAS)**, **108**, 51 (2011).
57. Weak Mott insulators on the triangular lattice: Possibility of a gapless nematic quantum spin liquid, *Tarun Grover, N. Trivedi, T. Senthil, and Patrick A. Lee*, **Phys. Rev. B** **81**, 245121 (2010).

56. Detecting the Elusive Larkin-Ovchinnikov Modulated Superfluid Phases for Imbalanced Fermi Gases in Optical Lattices, *Yen Lee Loh and Nandini Trivedi*, **Phys. Rev. Lett.** **104**, 165302 (2010).
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47. Disorder Enhanced Spin Polarization in Diluted Magnetic Semiconductors, *Byounghak Lee, Xavier Cartoixa, Nandini Trivedi, Richard M. Martin*, *Phys. Rev. B* **76**, 155208 (2007).

46. Pairing and Superfluid Properties of Dilute Fermion Gases at Unitarity, *Vamsi K. Akkineni, David M. Ceperley, Nandini Trivedi, Phys. Rev. B* **76**, 165116 (2007).
45. Quantum phases in a doped Mott insulator on the Shastry-Sutherland lattice, *Jun Liu, Nandini Trivedi, Yongbin Lee, B. N. Harmon, Joerg Schmalian, Phys. Rev. Lett.* **99**, 227003 (2007).
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39. Testing of Z_2 topological order in variational wave functions for spin liquids *Arun Paramakanti, Mohit Randeria and Nandini Trivedi, Phys. Rev. B* **71** 094421 (8 pages) (2005)
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37. Inhomogeneous Metallic Phase in a Disordered Mott Insulator in Two Dimensions, *Dariush Heidarian and Nandini Trivedi, Phys. Rev. Lett.* **93**, 126401 (2004).

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35. High T_c superconductors: A Variational Theory of the Superconducting State, *Arun Paramakanti, Mohit Randeria and Nandini Trivedi*, **Phys. Rev. B** **70**, 054504 (2004).
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32. Projected Wavefunctions and High Temperature Superconductivity, *Arun Paramakanti, Mohit Randeria and Nandini Trivedi*, **Phys. Rev. Lett.** **87**, 217002 (2001).
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28. Spatial inhomogeneities in disordered d-wave superconductors, *Amit Ghosal, Mohit Randeria, and Nandini Trivedi*, **Phys. Rev. B** **63** 020505 (2000).
27. Conducting Phase in the Two-dimensional Disordered Hubbard Model, *Peter J. H. Denteneer, Richard T. Scalettar, and Nandini Trivedi*, **Phys. Rev. Lett.** **83** 4610 (1999).
26. Quantum Monte Carlo Study of the Disordered Attractive Hubbard Model, *Richard T. Scalettar, Nandini Trivedi, and C. Huscroft*, **Phys. Rev.**, **B59** 4364 (1999).

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18. Disorder-Tuned Transition Between Quantum Hall Liquid And Hall Insulator, *L. W. Wong, H. W. Jiang, Nandini Trivedi, and E. Palm*, **Phys. Rev.** **B51**, 18033 (1995).
17. Deviations From Fermi-Liquid Behavior above T_c in 2D Short Coherence Length Superconductors, *Nandini Trivedi and Mohit Randeria*, **Phys. Rev. Lett.** **75**, 312 (1995).
16. Reply to Comment on “Disordered Bosons: Critical Phenomena and Evidence for New Low Energy Excitations”, *Nandini Trivedi and M. Makivić*, **Phys. Rev. Lett.** **74**, 1039 (1995).
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9. Mott and Superfluid Transitions in a Strongly Interacting Lattice Bose System, *Werner Krauth and Nandini Trivedi*, **Europhys. Lett.** **14**, 627 (1991).
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12. Projected Wavefunctions and High Tc Superconductivity in Doped Mott Insulators, *M. Randeria, R. Sensarma, and N. Trivedi, in "The Hubbard Model: Theoretical Methods for Strongly Correlated Systems edited by F. Mancini and A. Avella. Springer Verlag, 2012.*
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