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Permanent Resident: United States (Green Card)

Education

M.S. Indian Institute of Technology, New Delhi,
5-year integrated Department of Physics, June 1981.
program Thesis: Dispersion and Power Coupling in Optical Fibers
Adviser: Ajoy K. Ghatak

Ph.D. Cornell University,
Department of Physics, September 1987.
Thesis: Electronic Transport in Disordered Systems
Adviser: Neil W. Ashcroft

Professional Employment

Professor, Department of Physics, The Ohio State University, Columbus, OH, USA,
August 2004 to present.

Professor, February 2001 to August 2004
Associate Professor, August 1998 to January 2001
Reader, August 1995 to October 1998
Department of Theoretical Physics, Tata Institute of Fundamental Research, Mum-
bai, India.

Visiting Professor, August 2002 to August 2003
Department of Physics and Materials Research Laboratory
University of Illinois at Urbana Champaign.

Scientist, Condensed Matter Theory Group, Materials Science Division,
Argonne National Laboratory, April 1995 to August 1995.
Assistant Scientist, Condensed Matter Theory Group, Materials Science Division,
Argonne National Laboratory, March 1991 to March 1995.

Post-Doctoral Research Associate, Department of Physics,
State University of New York at Stony Brook, September 1989 to February 1991.
Post-Doctoral Research Associate, Department of Physics,
University of Illinois at Urbana-Champaign, September 1987 to September 1989.

Current Research Interests : Computational Condensed Matter Theory

- Quantum Monte Carlo Simulations for Fermions and Bosons
- Strongly Correlated Superconducting and Magnetic Materials
- Disorder and Interaction Driven Quantum Phase Transitions
- Fermions and Bosons in Traps
- Transport in Reduced Dimensionality and Nanostructures

10 MOST SIGNIFICANT PUBLICATIONS

1. **Mesoscopic Ring in a Magnetic Field: Reactive and Dissipative Response**, N. Trivedi and D. A. Browne, *Phys. Rev.* **B38**, 9581 (1988).
2. **A Green Function Monte Carlo Study of Quantum Antiferromagnets**, N. Trivedi and D. Ceperley, *Phys. Rev.* **B40**, 2737 (1989).
3. **Superfluid-Insulator Transition in Disordered Boson Systems**, W. Krauth, N. Trivedi and D. M. Ceperley, *Phys. Rev. Lett.* **67**, 2307 (1991).
4. **Pairing and Spin Gap in the Normal State of Short Coherence Length Superconductors**, M. Randeria, N. Trivedi, A. Moreo, and R. Scalettar, *Phys. Rev. Lett.* **69**, 2001 (1992).
5. **Role of Spatial Amplitude Fluctuations in Highly Disordered s-Wave Superconductors**, A. Ghosal, M. Randeria, and N. Trivedi, *Phys. Rev. Lett.* **81** 3940 (1998).
6. **Simulation of Flux Lines with Columnar Pins: Bose Glass and Entangled Liquids**, P. Sen, N. Trivedi and D. M. Ceperley, *Phys. Rev. Lett.* **86** 4092 (2001).
7. **Particle-Hole Symmetry and the effect of Disorder on the Mott-Hubbard Insulator**, P. J. H. Denteneer, R. T. Scalettar, and N. Trivedi, *Phys. Rev. Lett.* **87**, 146401 (2001).
8. **Projected Wavefunctions and High Temperature Superconductivity**, A. Paramekanti, M. Randeria and N. Trivedi, *Phys. Rev. Lett.* **87**, 217002 (2001).
9. **Discovery of an Unusual Metallic Phase upon Disorder Mott Insulators in 2D**, D. Heidarian and N. Trivedi, *Phys. Rev. Lett.* **93** 126401 (2004).
- 10 **The Physics Behind High-Temperature Superconducting Cuprates: The “Plain Vanilla” Version Of RVB**, P. W. Anderson, P. A. Lee, M. Randeria, T. M. Rice, N. Trivedi, and F. C. Zhang; *J Phys CM* **16**, R755 (2004).