Lin Tian, Ph.D.

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RESEARCH INTEREST

quantum engineering and measurement of nanomechanical systems; scalable quantum computing including cavity QED, quantum control, and one way/topological quantum computing in condensed matter systems; quantum simulation in condensed matter systems

EDUCATION

- Ph.D. in Physics (2002), Massachusetts Institute of Technology, Cambridge MA
- M.S. in Physics (1997), Beijing University, Beijing China
- B.S. in Physics (1994), Tsinghua University, Beijing China

RESEARCH APPOINTMENTS

- **Assistant Professor, University of California, Merced, July 2008 -**
- **Karel Urbanek Postdoc Fellow, Stanford University, 2007 - 2008**

  Advisor: Prof. Yoshihisa Yamamoto

  Studying quantum simulation and coherence effects of exciton-polariton condensation in semiconductor microcavity; and solid-state/quantum optcis quantum information and decoherence.

- **Postdoc Researcher, National Institute of Standards and Technoloy, 2005 - 2006**

  Independent research on quantum coherent phenomena in nanomechanical systems, superconducting quantum bits, and interfacing between solid-state and quantum optical systems.

- **Visitor, Universität Karlsruhe, 2004**

  Advisor: Prof. Gerd Schön

  Studying quantum engineering and low-frequency noise in superconducting qubits.

- **Postdoctoral Researcher, Universität Innsbruck, 2002 - 2004**

  Advisor: Prof. Peter Zoller

  Studied the interfacing between quantum optical and solid-state systems, ion trap quantum computing with microfabricated devices, and quantum effects in nanomechanical systems.

- **Graduate Researcher, Massachusetts Institute of Technology, 1997 - 2002**

  Advisors: Prof. Seth Lloyd and Prof. Terry P. Orlando

  Studied quantum effects in mesoscopic quantum devices, especially superconducting qubits, decoherence and quantum measurement in these devices, and quantum control of quantum systems.

PROFESSIONAL ACTIVITIES

- Faculty search committee for condensed matter/nanoscale physics positions, 2008 - 2009
- Graduate admission subcommittee for physics program, UC Merced, 2008 - 2009
- Physics women society, Massachusetts Institute of Technology, 1998 - 2002
- Reviewer for scientific grants
- Referee for Physical Reviews A and B and Physical Review Letters, Journal of Physics B, and Physics Letters A

TEACHING EXPERIENCE

- Instructor, Fall 2008, "Introduction to Quantum Mechanics", UC Merced
- Guest lecture, Spring 2007, "Topological quantum computing", Stanford
- Grader, Spring 2001, "Computability and Complexity", MIT
- Teaching Assistant, Spring 1998, "Physics for Solid State Applications ", MIT
- Teaching Assistant, Fall 1997, "Quantum Mechanics II", MIT

AWARDS

- Urbanek postdoctoral fellowship, Stanford University, 2006 - 2008
- Guanghua student fellowship, Beijing University, 1995, 1997
- Guanghua student fellowship, Tsinghua University, 1990, 1991,1993