

Shoucheng Zhang

Professor of Physics, Applied Physics, and Electrical Engineering

LAM, Room 303
McCullough Bldg
476 Lomita Mall
Stanford, CA 94305-4045

tel 650-723-2894

fax 650-723-9389

email: sczhang@stanford.edu

Research Interests

Current research interest in theoretical condensed matter physics focuses on the theory of quantum spin transport, dissipationless spin current, the spin Hall effect and the theory of high T_c superconductivity based on the $SO(5)$ symmetry between antiferromagnetism and superconductivity.

Career History

B.S. 1983, Free University of Berlin, Germany

Ph.D. 1987, State University of New York at Stonybrook

1987-1989, Postdoctoral Fellow, ITP, Santa Barbara

1989-93, Research Staff Member, IBM Almaden Research Center

1993-present, Professor of Physics, Stanford University

1995-present, Professor of Applied Physics, by courtesy, Stanford University

2004-present, Professor of Electrical Engineering, by courtesy, Stanford University

2004-present, Co-director of IBM-Stanford Center for Spintronics Science and Application Center