

ALEXANDER BALATSKY

Theory and Simulation of Nanoscale Phenomena - Partner Science Leader

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Education

Landau Institute for Theoretical Physics Moscow, USSR

January 1985– March 1987 Ph.D. in Theoretical Physics, thesis “On the spontaneous orbital momentum in super fluid ^3He A”, March 1987, advised by Prof. G. E. Volovik.

Moscow Physical-Technical Institute and Landau Institute Moscow, USSR

1978–1984 Combined M.S. in Physics and Engineering, thesis “Hexatic phase transitions in the presence of impurities”, June 1984, Department of General and Applied Physics.

Synergistic Activities

Honors

Second place in the Annual Young Physicist Competition of Institutes of Academy of Sciences at Moscow, USSR, March 1988.

J. Robert Oppenheimer fellowship at the Los Alamos National Laboratory.

Appointed the Research Affiliate of the National High Magnetic Field Laboratory, January 1997-2000.

Los Alamos National Laboratory Achievement Awards, 1997, 2000.

Cyril Smith Scholar, Center for Materials Studies, LANL, Jan 99-Jan 00.

Senior Fellowship of Japanese Society for Promotion of Science, Hokkaido University, March - April 2003.

American Physical Society Fellow, Nov 2003.

Los Alamos Fellow, Oct 2005.

Professional Service

Member APS, 1989-present

Organizer of Los Alamos Many Body Summer Workshops, 1993-present.

Co-editor (with K. Bedell, Z. Wang, D. Meltzer and E. Abrahams), “Strongly Correlated Electronic Materials”, Los Alamos Symposium, 1993.

Member of International Advisory Committee for Spectroscopies of Novel Superconductors, Cape Cod, 1997-present

Research Experience

Center for Integrated Nanotechnologies, LANL-Sandia Los Alamos, NM, March 2005 – present

Theory Thrust Leader, CINT, Los Alamos-Sandia joint DOE Nano Center for Integrated Nanotechnologies, LANL-Sandia Los Alamos, NM September 2004 – March 2005, Acting Chief Scientist, CINT, Los Alamos-Sandia joint DOE Nanocenter.

Theoretical Division, LANL Los Alamos, NM, March 1994 – present, Condensed Matter Theory group.

Japan Corporation for Science and Technology, JIST and University of Tokyo, Japan

January 2003 – February 2003

Research scientist

Department of Physics, Hokkaido University Sapporo, Japan

March 2003– April 2003 Senior Fellowship, Japanese Society for Promotion of Science, group of Prof. Ido.

Center for Material Studies and Theoretical Division, LANL Los Alamos, NM

August 1991– March 1994 -J.R. Oppenheimer Fellow

Physics Department, University of Illinois at Urbana-Champaign Urbana, IL

September 1989–August 1991 Postdoctoral Associate with D. Pines, and later a Visiting

Landau Institute for Theoretical Physics Moscow, USSR

January 1985– June 1998

(Landau Institute. 1985-1987 PhD with G. Volovik.

Moscow Physical-Technical Institute Moscow, USSR, September 1978–June 1984