

ALEXANDER BALATSKY

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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 superfluid $^3\text{He} - A$ ”, 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.

RESEARCH EXPERIENCE

Theoretical Division, LANL **Los Alamos, NM**

March 1994 – present

Staff member, team leader in Condensed Matter Theory group.

University of Tokyo, Hokkaido University **Japan**

January 2003 – April 2003

Research scientist and Senior Fellowship, Japanese Society for Promotion of Science

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

August 1991– March 1994

J.R. Oppenheimer Fellow, pursuing postdoctoral research on the properties of strongly correlated electron systems.

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

September 1989–August 1991

Postdoctoral Associate and later a Visiting Research Assistant Professor.

Landau Institute for Theoretical Physics **Moscow, USSR**

January 1985– June 1998

graduate student, scientific researcher at the Landau Institute.

Institute of Physics of Metals **Kiev, USSR**

September–December 1984

Researcher in the Theoretical Department at the Institute of Physics of Metals.

Moscow Physical-Technical Institute **Moscow, USSR**

September 1978–June 1984

M.S. thesis in Physics.

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 Award, September 1997.

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

Los Alamos National Laboratory Achievement Award, March 2000.

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

Fellow of the American Physical Society, citation "For insightful theory of strongly correlated states of matter, particularly unconventional superconductivity and the prediction of impurity-induced quasiparticle bound states." November 2003.

PROFESSIONAL ACTIVITIES

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.

Adjunct Professor, Boston College, 1998-present.

Co-organizer (with J. Sauls, L. Taillefer), Aspen Summer Workshop on Unconventional Order in Metals, Summer 1999.

Co-organizer (with J. Zaanen), Strongly Correlated Electrons Workshop, Leiden University, Fall 2001.

Program Committee, Spectroscopies of Novel Superconductors, 2004, Spain, July 2004.

POSTDOCS AND STUDENTS

M. Salkola PD 1995-1997, staff member, Superconducting Technologies INC, Santa Barbara.

M. Graf, PD 1998-2000. Staff member at LANL.

W.J. Mao (BC), summer student 1998.

D. Morr, PD 1999-2001. Assistant Professor at UI Chicago.

H. Kruis (Leiden), summer student 2000.

I. Martin, PD 1999-2001. Staff member at LANL.

Y. Smakov (KTH), summer student 2001.

J.X. Zhu, PD 2001-present.

Y. Joglekar, PD 2002-present.

Z. Nussinov, PD 2002-present.

PERSONAL BACKGROUND

US citizen (naturalized). Born in Pushkin, Leningrad region October 19, 1961. Graduated from the Physical- Mathematical School at the Kiev University. Fluent in Russian, Ukrainian, read German.

BIBLIOGRAPHY

More than 100 publications in the regular journals. See below.

Referee for NSF, DOE, Science, Nature, Phys. Rev. Lett., Phys. Rev. **B**, Nucl. Phys., Phys. Lett.**A**, Physica **B**, Phil. Mag., Phys. Rep.