

CURRICULUM VITAE

Alexei A. Starobinsky

Born: April 19, 1948, Moscow, USSR

M.S.: 21 January 1972, from the Physics Department, Moscow State University

Ph.D.: 14 November 1975, from the Landau Institute for Theoretical Physics,
USSR (now Russian) Academy of Sciences

Supervisor for M.S. and Ph.D.: Academician Ya.B. Zeldovich

Research Positions

- May 1975 - August 1990 — Research Scientist, Senior Research Scientist in the Landau Institute for Theoretical Physics
- August 1990 - June 1997 — Head of the Department of Gravity and Cosmology and Leading Research Scientist, Landau Institute for Theoretical Physics
- Since June 1997 by now — Main Research Scientist, Landau Institute for Theoretical Physics, Moscow, Russia
- March - September 1991 — Visiting Professor, Ecole Normale Supérieure, Paris, France
- November 1993 - September 1994 — Visiting Professor, Yukawa Institute for Theoretical Physics, Kyoto University, Kyoto, Japan
- August 2000 - February 2001 — Visiting Professor, Research Center for the Early Universe, University of Tokyo, Tokyo, Japan
- September 2006 - December 2006 — Visiting Professor, CNRS, Institut Henry Poincaré, Paris, France
- March 2007 - June 2007 — Visiting Professor, Yukawa Institute for Theoretical Physics, Kyoto University, Kyoto, Japan

Administrative Positions

- March 1987 - August 1990 — Science Secretary of the Landau Institute for Theoretical Physics
- May 1990 - June 1990, May 1991 - June 1991 — Co-Director of the USSR-USA Summer Programme for Young Investigators in Cosmology 1990 & 1991 (jointly with K. Thorne in 1990 and D. Schramm in 1991)
- July 1999 - June 2003 — Deputy Director of the Landau Institute for Theoretical Physics, Moscow, Russia

Scientific Awards and Fellowships

- Russian State Distinguished Scientific Fellowship — 1994 - 1997
- A.A. Friedmann Prize for Research in the Field of Gravity and Cosmology from Russian Academy of Sciences — 1996
- Correspondent Member of the Russian Academy of Sciences — elected 30.05.1997
- Prize of the International Academic Publ. Co. "Nauka/Interperiodica" for the best work of the year published in its journals — 2004.

Membership in International Societies and Committees

- Member of the International Committee on General Relativity and Gravitation — 1989 - 1997
- IUPAP Representative of the International Society of General Relativity and Gravitation — 2004 - 2010
- Member of the Astronomy panel of the Long-Term Research Grants Program of the International Science Foundation — 1993 - 1994
- Member of the New York Academy of Sciences — since 1995

Membership in Editorial Boards of Scientific Journals

- General Relativity and Gravitation — 1989 - 1997
- JETP Letters (Russia) — since 1991
- Astronomy Letters (Russia) — since 1992
- International Journal of Modern Physics D — since 1992

- Classical and Quantum Gravity — 1993 - 1996
- Gravitation and Cosmology (Russia) — since 1994
- Physical Review D — 2001 - 2003
- Journal of Cosmology and Astroparticle Physics — since 2002

AREAS OF PREVIOUS RESEARCH

- Particle creation in cosmology (1972 - 1977).
- Wave amplification and particle creation by rotating black holes (1973 - 1974).
- Observational tests of PBH (1976 - 1979).
- Stability of Cauchy horizons (1979 - 1980).
- Inflation, including first observational test of inflation (1979).
- First self-consistent model of inflation based on the fourth-order gravity (1980).
- Theory of generation of adiabatic perturbations during inflation (1982).
- Fluctuations of the temperature of cosmic microwave background radiation (1983 - 1988, 1992 - 1995).
- Stochastic inflation (1984 - 1986, 1994).
- Multiple inflation (1985, 1992 - 1994).
- Cold dark matter model with the cosmological term (1985).
- Cold + hot dark matter cosmological models (1993 - 1995).
- Theory of reheating after inflation (1994-1997).
- Quantum-to-classical transition in cosmology (1996-1998, 2007).
- Dark energy in the Universe: theoretical and observational investigation of its properties (1998-2000, 2003-2004, 2006-2007).
- Trans-Planckian particle creation in cosmology (2001-2002, 2007).
- Cosmology with tachyon matter (2002).
- ARCHEOPS collaboration (measurement and investigation of CMB temperature fluctuations in the ARCHEOPS experiment) (2002-2004).
- Scalar-tensor and $f(R)$ models of dark energy (2006-2007).