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, USSR Academy of Sciences, Moscow - Chernogolovka, USSR
- August 1990 June 1997 Head of the Department of Gravity and Cosmology and Leading Research Scientist, Landau Institute for Theoretical Physics, Moscow - Chernogolovka, Russia
- Since June 1997 by now Principal Research Scientist, Landau Institute for Theoretical Physics, Russian Academy of Sciences, Moscow
 Chernogolovka, Russia
- March September 1991 Visiting Professor, Ecole Normale Superieure, 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 2005 August 2008 Guest Professor, Inter-University Center for Astronomy and Astrophysics, Pune, India
- September 2006 December 2006 Visiting Professor, CNRS, Institut Henry Poincare, Paris, France
- March 2007 June 2007 Visiting Professor, Yukawa Institute for Theoretical Physics, Kyoto University, Kyoto, Japan

- Since April 2007 by now part-time Leading and now Principal Research Scientist, Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna, Russia
- December 2008 March 2009, October 2010 March 2011, January 2012 March 2012, November 2012 January 2013, October 2013 November 2013, March 2015, November 2015, February 2017, December 2017 Visiting Professor, Research Center for the Early Universe, University of Tokyo, Tokyo, Japan
- November 2014 -June 2015 (3 months) Visiting Professor, Institute of Theoretical Physics, Faculty of Science, Utrecht University, Netherlands
- November 2016 Guest Senior Researcher, Waseda Institute for Advanced Study, Waseda University, Tokyo, Japan
- Since September 2017 by now part-time Professor, Faculty of Physics, National Research University Higher School of Economics, Moscow, Russia

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
- $\bullet\,$ The A. A. Friedmann Prize for Research in Gravity and Cosmology from the Russian Academy of Sciences 1996
- $\bullet\,$ 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

- The Tomalla Prize for extraordinary contributions to General Relativity and Gravity from the Tomalla Foundation for Gravity Research (Switzerland) — 2009
- Member of the German Academy of Sciences Leopoldina the German National Academy of Sciences elected 24.03.2010
- The Oscar Klein Medal from the Royal Swedish Academy of Sciences and the Stockholm University 2010
- Full Member of the Russian Academy of Sciences elected 22.12.2011
- The Amaldi Medal from SIGRAV (Italian Society for General Relativity and Gravitational Physics) 2012
- The Honorary Professor of the Bashkir State Pedagogical University, Ufa, Russia 2012
- $\bullet\,$ The Gruber Cosmology Prize from the Gruber Foundation, USA 2013
- The A. A. Friedmann Medal from the Perm State University, Perm, Russia — 2013
- Foreign Fellow of the National Academy of Sciences, India (Allahabad) 2013
- The 2014 Kavli Prize in Astrophysics from the Norwegian Academy of Science and Letters, the Norwegian Ministry of Education and Research and the Kavli Foundation 2014
- Member of the Norwegian Academy of Science and Letters elected 29.05.2014
- Doctor Honoris Causa from the Kazan Federal University, Kazan, Russia-2014
- $\bullet\,$ Gold A. D. Sakharov Medal from the Russian Academy of Sciences 2016
- Foreign Fellow of the Indian National Science Academy (New Delhi) since 01.01.2017
- Foreign Associate of the US National Academy of Sciences elected 02.05.2017
- \bullet d'Officier dans l'Ordre national des Palmes Academics, France- 2017

Membership in National and International Societies and Committees

- Member of the Committee of the International Society on General Relativity and Gravitation (elected) — 1989 - 1997, 2011 - 2019
- 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 American Physical Society since 2001, Fellow since 2011
- Vice President of the Council of the BRICS-AGAC Association of Gravity, Astrophysics and Cosmology since 2016
- President of the Russian Gravitational Society elected 27.06.2017

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, and the member of the CQG Advisory Panel since 2011
- Gravitation and Cosmology (Russia) since 1994
- Physical Review D 2001 2003
- Journal of Cosmology and Astroparticle Physics since 2002
- European Physical Journal C (Theoretical Physics II) since 2012
- Physics of Elementary Particles and Atomic Nuclei (Russia) since 2012
- Modern Physics Letters A since 2013
- SIGMA (Symmetry, Integrability and Geometry: Methods and Applications) since 2014

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 $(R + R^2)$ 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, 2015).
- Multiple inflation (1985, 1992 1994).
- Cold dark matter model with the cosmological term (1985).
- Cold + hot dark matter cosmological models (1993 1995).
- Features in the primordial spectrum of adiabatic perturbations (1992, 2014 2018).
- 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 2009, 2012 2018).
- 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 (2000, 2006 2007, 2009 2011, 2017).
- Higgs inflation (2008 2009, 2012).

- Generalization of inflationary models in modified gravity to supergravity (2011 2012).
- Sterile neutrino and f(R) models of dark energy (2013 2015).
- Non-local UV generalizations of gravity (2016 2018).
- Constant-roll inflation (2015 2017).