Curriculum Vitae

Ari Laptev

Personal Data

Date of Birth: August 10, 1950. **Citizenship:** Swedish citizen

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Education

1972: M.Sc in Mathematics, Leningrad State University. 1978: PhD in Mathematics, Leningrad State University.

Positions Held

2007- present: Professor of Pure Mathematics, Imperial College London.

2011- 2018: Director of Intitut Mittag-Leffler.

1999-2007: Professor KTH, Stockholm.

1992-1999: Lecturer, Department of Mathematics, KTH, Stockholm.

1987-1992: Lecturer, University of Linköping, Sweden.

1982-1986: Lost my position at Leningrad University due to marriage to a British subject (5 years broken career).

1977-1982: Assistant Professor in Mathematics, University of Leningrad, USSR.

1972-1977: Junior Researcher, University of Leningrad, USSR.

Research Interests

Spectral Theory of Partial Differential Equations, in particular, Schrödinger operators; Polya conjecture; Lieb-Thirring inequalities; Trace formulae; Inverse problems; Global solutions of Wave Equations; Generalized Szegö Problems, Pseudodifferential Operators.

Awards

- Royal Society Wolfson Research Merit Award, UK, 2007.
- Member of the Royal Swedish Academy of Sciences, 2012.
- A Fellow of the European Academy of Sciences (EurASc) 2020.
- Member of Academia Europaea (2021).

National and International Assignments

President of the European Mathematical Society, January 1, 2007 - December 31, 2010. Chairman of the Scientific board of CRM in Barcelona 2025 - Chairman of the ERC Starting Grants panel, 2012, 2014, 2016.

Member of the Marie Sklodowska Curie Action Individual Fellowships (MSCA-IF) panel in Mathematics 2017-2018.

Vice-Chair of the Marie Sklodowska Curie Action panel in Mathematics 2019.

Head of Department, Imperial College, London, Sept. 2008-2010.

Member of the Executive Committee of the International Association of Mathematical Physics, 2012-2017.

Member of the panel of experts for the 2017 evaluation exercise Marie Sklodowska-Curie Individual Fellowships H2020-MSCA-IF-2017, 2018, 2019.

Chairman of ERCOM (2015- 2018)— EMS committee of 30 major research Institutes in Europe.

A member of the international Odysseus Jury 2018.

A member of the Prize Committee of the 7th European Congress of Mathematics (2016).

Member of the CIRM scientific board 2012- 2019.

Member of the LMS Council, 2007 - 2013.

President of the Org. Comm. of the 4ECM, June 28-July 2, 2004, Stockholm.

Chairman of the Steering Committee of the ESF European Programme SPECT, 2002-2007.

President of the Swedish Mathematical Society, 2001-2003.

Vice Chairman of the Department of Mathematics, KTH, 1999 – 2006.

PhD students

- 1. Timo Weidl (1995, KTH, now C4 Professor in Stuttgart).
- 2. Oleg Safronov (1997, KTH, now Associate Professor UNC, US).
- 3. Jockum Aniansson (1999, KTH, now Lecturer at KTH).
- 4. Lars Jonsson (2001, KTH, now Lecturer at KTH).
- 5. Dmitrii Gioev (2001, KTH).
- 6. Ulf Carlsson (2002, KTH).
- 7. Jörgen Östensson (2004, KTH).
- 8. Jesper Tidblom (2005, Stockholm University).
- 9. Tomas Ekholm (2005, KTH).
- 10. Rupert Frank (2007, KTH)
- 11. Anders Hansson (2008, KTH).
- 12. Andreas Enblom (2009, KTH).
- 13. Usman Muhamad (2012, Imperial College London).
- 14. Arman Sahovic (2013, Imperial College London).
- 15. Lukas Schimmer (2014, Imperial College London).
- 16. Fabian Portmann (2014, KTH).
- 17. Lior Aermark (2014, SU).
- 18. Alexandra Enblom (2018, Linköping University).
- 19. Simon Larson (2019, KTH Sweden).
- 20. Francesco Ferrulli (2019, Imperial College London).
- 21. Dorian Guzu (2020, Imperial College London).
- 22. Larry Read (2023, Imperial College London).
- 23. Shubham Gupta (2023, Imperial College London).
- 24. Alaa Aljahili (2024, Imperial College London,).
- 25. Timon Weinmann (2025, Imperial College London).
- 26. Ali Barki (joint PhD student with Cyril Roberto, CNRS, from 2021)
- 27. Jiyu Fan (PhD student, Imperial College London, from 2023).

Editorial Duties

- 2011-2018 Editor-in-Chief of Acta Mathematica, Institut Mittag-Leffler.
- 2022 Editor of Memoirs of the European Mathematical Society
- 2024 Chief Editor of Journal of Spectral Theory, EMS Publishing House.
- 2010 2024 Deputy Chief Editor of Journal of Spectral Theory, EMS Publishing House.
- 2010 Editor of Bulletin of Mathematical Sciences, World Scientific.
- 2009 Editor of Journal of Mathematical Sciences (New York) Springer.
- 2008 Deputy Chief Editor Asian-European Journal of Mathematics, World Scientific.
- 2012 Siberian Advances in Mathematics.
- 1997-2012 Editor of Arkiv för Matematik, Institut Mittag-Leffler.

Publications

I am the author of about **140 research** paper, author of **1 book** and editor of **7 books**. My list of publication contained article published in such journals as *Acta Mathematica*, *Inventiones Math, Journal of European Mathematical Soc., Comm. Pure and Appl. Math., IMRN, GAFA, Comm. Math. Physics, JFA, PAMS, JST*, etc. About 30 research papers are published during the last five years.

Some recent Conferences

- 2025, July 21-25, 15th ISAAC Congress in Astana, Plenary speaker.
- 2024, July 08-12, Integrability and Moduli, Lisbon.
- 2024 June 10-14, Quantum Dynamics and Spectral Theory, IML, Sweden.
- 2023 September 19-21, Workshop on Microlocal Analysis and Mathematical Physics, Lund, Sweden
- 2023 May 8-12, Spectral geometry and applications, Quebec City, Canada.
- 2023 March 6, The Ladyzhenskaya Lecture 2023, St Petersburg.
- 2022 June 13-18 MCQM22 Como, Italy.
- 2021 Febr 1--5, CIRM, Mathematical Aspects of Physics with Non-Self-Adjoint Operators: 10 Years After.
- 2020 Nov. 30-Dec. 2 QIPA, Moscow, (invited lecture).
- 2019 Aug. 12-16 27th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications, Krasnoyarsk.
- 2019 May 27-31 The Art of Quantization, St Petersburg, (invited lecture).
- 2018 Dec. 10-16 Sobolev's readings, Novosibirsk, (plenary lecture).
- 2018 Dec. 03-05 Quasi-linear equations, inverse problems and their applications, Moscow (invited lecture).
- 2018 July International Congress Mathematical Physics, Montreal, (invited lecture).
- 2017, Växjö, August 14-19 ISAAC Congress (plenary talk).
- 2017 September 12-15, Rome, SAPIENZA, ERC school in Harmonic Analysis, Spectral Theory and PDE's (one of three major speakers).
- 2015 June 14-18 PDE's, Potential Theory and Function Spaces, Linköping, Sweden, (invited speaker).
- 2015 June 10-12 Young Functional Analysis workshop, London (invited speaker).

2014 Sept. 15-17 - Geometric Analysis, Calculus of Variations, Harmonic Analysis, Sussex, UK (invited speaker).

2014 Aug. 6-8 - Boundary Problems and Spectral Theory (invited speaker)

2013 Sept. 10-13 – QMATH12, Berlin (pleanary speaker).

2013 Aug. 24-29 – Conference dedicated to 70th anniversary of the Armenian Academy of Sciences, Yerevan (plenary speaker).

2013 June 17-21 - Conference "Variational and Spectral Methods in Quantum Mechanics" Institut Henri Poincare, Paris, (plenary speaker).

2012 July 2-6 – Conference Spectral theory, Oberwolfach, (invited speaker).

2011 Dec. 12-16 - Spectral Analysis of non-selfadjoint operators, CIRM, Luminy, France (invited speaker).

2011 Sept. 11-14 - Mathematical Physics, Spectral Theory and Stochastic Analysis, Goslar, Germany (invited speaker).

2011 Aug 22-27 - The 8th ISAAC Congress, Moscow (plenary speaker).

2010 Dec 13-22- The 5th International Congress of Chinese Mathematicians, ICCM-2010, Beijing (plenary speaker).

2010 August 14-18 -Quantum Systems, Chennai, India (invited speaker) ICM Sattel. Conf. 2006 August 6-13 - International Congress in Mathematical Physics, Rio de Janeiro (invited speaker)

2025-09-20

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