CURRICULUM VITAE

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PERSONAL INFORMATION

Born: November 18, 1976, Moscow   **Citizenship:** Russian Federation

ACADEMIC DEGREES

Ph.D., 2001   Mathematics, Lomonosov Moscow State University.

Ph.D., 2001   Advisor: Valery V. Ryzhikov. Thesis: "Special representations, constructions and algebraic properties of dynamical systems with invariant measure".

EDUCATION

1992–1997   Lomonosov Moscow State University,
                     Department of Mathematics and Mechanics,
                     Graduate student (with Gold Medal).

1997–2000   Lomonosov Moscow State University,
                     Department of Mathematics and Mechanics, Ph.D. student.
                     Chair of Functional Analysis and Theory of Functions.

AREA OF SPECIALIZATION

Dynamical systems, ergodic theory and ODE. Analysis and number theory.
Discrete geometry.

EXPERIENCE

2000–present   Lomonosov Moscow State University,
                        Department of Mathematics and Mechanics,
                        Chair of Dynamical Systems, Senior teacher.

Courses and Seminars

The French-Russian Mathematics Laboratory in Moscow:
L'Universite Independante de Moscou et le laboratoire franco-russe de mathematiques.

> Course on "Spectral theory of Dynamical Systems"(for M. Sc. and Ph. D. students)
>
> Course on "Functional Analysis and Applications"

Lomonosov Moscow State University,
Department of Mathematics and Mechanics.

> Course on "Dynamical systems and ergodic theory"(for M. Sc. and Ph. D. students)
>
> Course on "Ordinary differential equations"

SCIENTIFIC PUBLICATIONS

- A. A. Prikhod'ko, On group actions with simple Lebesgue spectrum. ArXiv:1111.0230v1.
- A. A. Prikhod'ko, On ergodic properties of "iceberg" transformations. I: Approximation and spectral multiplicity. ArXiv:1008.4301v1.
- A. A. Prikhod'ko, On flat trigonometric sums and ergodic flow with simple Lebesgue spectrum. ArXiv:1002.2808v1. Submitted to *Sbornik: Mathematics*, 2010.
- El Abdalaoui, E.H.; Parreau, F.; Prikhod'ko, A.A. A new class of Ornstein transformations with singular spectrum. *Ann. Inst. Henri Poincare, Probab. Stat.* 42, No.6, 671–681 (2006).
- A. A. Prikhod'ko, Introduction to ergodic theory; spectral theory of dynamical systems. Spring 2002. *IUM lecture notes.*
- A. A. Prikhod'ko, Stochastic constructions of flows of rank 1. *Sbornik: Mathematics* (2001), 192(12):1799.
- A. A. Prikhod'ko, Stochastic Constructions of Mixing Systems of Positive Local Rank. *Russian Math. Notes*, vol.69, no.1–2, 2001.
- A. A. Prikhod'ko, V. V. Ryzhikov, Disjointness of the convolutions for Chacon's automorphism. *Colloq. Math.* 84/85 (1) (2000), 67—74.
- A. A. Prikhod'ko, Ergodic Joinings of $\mathrm{GL}(n, \mathbb{Z})$-Action on n-Torus. *J. Dynam. Control Systems*, vol.5 (1999), no.3, 385–396.
- A. A. Prikhod'ko, Partitions of the phase space of a measure preserving $\mathbb{Z}^d$-action into towers. *Russian Math. Notes*, vol.65, no.5, 1999.
- A. A. Prikhod'ko, Joinings of the action of the group $\mathrm{GL}(n, \mathbb{Z})$ on the n-dimensional torus. *Russian Math. Notes*, vol.63, no.2, 1998.
- A. A. Prikhod'ko, A. V. Egorov, Arithmetic theory of brick tilings. *Sbornik: Mathematics* (1998), 189(12):1765.
- A. A. Prikhod'ko, Special representations of $\mathbb{Z}^n$-actions. *J. Dynam. Control Systems*, vol.2 (1996), no.2, 239–253.
- A. A. Prikhod'ko, V. V. Ryzhikov, On maximal Rokhlin–Halmos–Alpern lemma. *Lomonosov MSU "Vestnik", Math., Mechanics*, vol.58, no.3, 1996.
- A. A. Prikhod'ko, Special representation of an aperiodic automorphism of a Lebesgue space. *Russian Math. Notes*, vol.58, no.2, 1995.

GRANTS and AWARDS

- President grant for young scientists — Ph. D., 2001–2002.

Current grants

- Russian grant for support of leading scientific schools NSh-8508.2010.1
- RFFI grant No. 11-01-00759-a "Combinatorial and analytic methods in combinatorial number theory and dynamical systems"

CONFERENCES ORGANIZED

- I. G. Petrovskii 100 conference, Lomonosov Moscow State University, 2001
- V. M. Alexeyev memorial conference, Steklov Mathematical Institute, Russian Academy of Science, 2002

CONFERENCE COMMUNICATIONS

- International Conference "Flows on surfaces, symbolic dynamics and dynamics in moduli spaces" dedicated to the 75th birthday of D.V. Anosov, December 5 - 9, 2011, Poncelet Laboratory, Moscow, Russia
- International conference "Differential Equations and Related Topics" dedicated to I.G.Petrovskii anniversary, May 29 – June 4, 2011. Moscow, Russia.
- Conference on spectral theory in dynamics, October 4–8, 2010. Warszawa, Poland.
- Dynamical Systems Meeting, Lower Silesia, May 23–29, 2010. Trzebieszowice, Poland.
- Lomonosovskie chtenia, Moscow State University, April 16–22, 2010. Moscow, Russia.
- Topology, Geometry, and Dynamics: Rokhlin Memorial, January 11-16, 2010. Saint Petersburg, Russia.
- Voronezh Winter Math. School, January 2003. Voronezh, Russia.
- Conference "Ergodic Theory and Dynamical Systems", l'Université Paris XIII, 2001. Paris, France.
- Session residentielle, Systemes dynamiques : l'Odyssee dynamique, CIRM, 29 janvier – 2 mars 2001. Marseille, France.
- Swedish-Russian conference "Combinatorics, Dynamics, Probabilities", Stockholm, Royal Institute of Technology (KTH), October 3–7, 2000.
- Conference "Ergodic Theory and Dynamical Systems", 2000. Toruń, Poland.
- Conference and Ukrainian-US Workshop "Dynamical Systems and Ergodic Theory", August 21 – 30, 2000. Katsiveli (Crimea), Ukraine.

SELECTED TALKS

- On stochastic constructions of mixing flows of positive local rank, Séminaire de Systèmes Dynamiques, l'Université Pierre et Marie CURIE, Paris VI, 1999.
- Algebraic properties of brick tilings and ergodic theory, l'Odyssee dynamique, CIRM, Marseille, 2 mars 2001.
- On spectral properties of iceberg transformations, Séminaire de Systèmes Dynamiques, l'Université Pierre et Marie CURIE, Paris VI, November 2, 2010.

- On Littlewood-type polynomials and exponential sums and applications to spectral theory, Le groupe de travail Probabilités, Théorie Ergodique et Systèmes Dynamiques, LMRS, l'Université de Rouen, November 8, 2010.
- The problem of flatness for polynomials and exponential sums and applications to ergodic theory, Séminaire de Théorie des Nombres de Caen, Laboratoire de Mathématiques Nicolas Oresme, l'Université de Caen, November 5, 2010.
- Littlewood-type polynomials and spectral theory of dynamical systems, International conference "Differential Equations and Related Topics", Lomonosov Moscow State University, May 29 – June 4, 2011.
- On Littlewood polynomials on the real line, Seminar on functional analysis, Lomonosov Moscow State University, December 2, 2011.
- An example of computing the symbolic complexity, and applications to spectral theory, St. Petersburg Seminar on Representation Theory and Dynamical Systems, January 4, 2012.