

Curriculum vitæ

EVGENY SMIRNOV

Personal Details

Date and Place of Birth: November 9, 1982, Moscow, Russia
Nationality: Russian
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Current position

09.2009–present *Researcher*, Laboratoire franco-russe J.-V. Poncelet (UMI 2615);

09.2009–present *Assistant professor*, Higher School of Economics, Department of Mathematics.

Research interests

Algebraic groups, equivariant algebraic geometry, representation theory, combinatorics.

Positions held previously, Education

10.2008–08.2009 *Postdoctoral Research Fellow*, Hausdorff Center for Mathematics, Rheinische Friedrich-Wilhelms-Universität Bonn, Germany

10.2007–09.2008 *SFB/TR45 Postdoctoral Research Fellow*, Mathematisches Institut, Rheinische Friedrich-Wilhelms-Universität Bonn, Germany

2004–2007 *Doctorat en mathématiques (Ph.D.)*, Université Joseph Fourier (Grenoble I); joint graduate program (*thèse en cotutelle*) with the Independent University of Moscow and Lomonossov Moscow State University

Thesis supervisors: Michel Brion, Ernest Vinberg

Ph.D. thesis title: Orbits of a Borel subgroup in the product of two Grassmannians

Ph.D. thesis defended on October 29, 2007 in Institut Fourier, Grenoble; *mention* “très honorable”

Official referees: Bernard Leclerc, Andrei Zelevinsky

1999–2004 *Specialist degree in Mathematics (M.Sc. equivalent)*, Independent University of Moscow;

1999–2004 *Specialist degree in Mathematics (M.Sc. equivalent)*, Diploma cum laude, Lomonossov Moscow State University, Dept. of Mechanics and Mathematics.

Diploma thesis (M.Sc. thesis) title: On natural differential operations.

Supervisors: Ernest Vinberg, Pavel Katsylo.

1996–1999 Moscow State 57th School, classgroup majoring in mathematics.

Publications

1. *Springer fiber components in the two columns case for types A and D are normal* (with N. Perrin), 18 pages. Preprint available on [arXiv:0907.0607](https://arxiv.org/abs/0907.0607).
2. *Bruhat order for two subspaces and a flag*, 30 pages, submitted for publication, 2007. Preprint available on [arXiv:math/0704.3061](https://arxiv.org/abs/math/0704.3061).
3. *Desingularizations of Schubert varieties in double Grassmannians*, *Functional Analysis and its Applications*, **42** (2008), no. 2, 56–67. Available on [arXiv:math.AG/0608554](https://arxiv.org/abs/math.AG/0608554).
4. *On generating sets of ideals defining S-varieties*, *Vestnik Moskov. Univ. Ser. I Mat. Mekh.* **70** (2005), no. 3, , pp. 3–6 (in Russian). English translation: *Moscow Univ. Math. Bull.* 60 (2005), no. 3, 1–4 (2006).

Popularization of mathematics

5. *Reflection groups and regular polyhedra*, 48 p., MCCME, Moscow, 2009 (in Russian)

Teaching Experience

2009-present Higher School of Economics

Courses taught:

- Geometry 1, exercise sessions (*Fall 2009*);
- Research initiation seminar “Groups and geometry” (*Fall 2009*).

2006–present Independent University of Moscow;

Courses taught:

- Program for foreign students “Math in Moscow”, Basic Representation Theory (*Fall 2009*);
- Geometry 1, exercise sessions (*Spring 2007*).
- Program for foreign students “Math in Moscow”, tutorial (*Spring 2007*);
- Grassmannians and flag varieties, course for 3rd–4th year (*Spring 2006*);
- Topology 1, exercise sessions (*Spring 2006*).

2008–2009 Mini-courses

- Geometry of Grassmannians, mini-course for Ph.D. students, 3 talks of 90 minutes, Jacobs University Bremen. (*March 2009*)
- Reflection groups and regular polyhedra, mini-course for undergraduate students, 4 talks of 75 minutes, Summer school “Contemporary Mathematics”, Dubna, Russia. (*July 2008*)

1999–2007 Moscow State 57th School, teacher of advanced mathematics in classgroups majoring in mathematics (part-time).

Seminar and conference talks

Jun. 2009 French–Russian workshop “Combinatorics, Geometry and Physics”, J.-V. Poncelet Laboratory, Moscow, Russia

Jun. 2009 Summer school in Lie algebras and invariant theory, Samara, Russia

Mar. 2009 Two talks at the St. Petersburg branch of Steklov mathematical institute, St. Petersburg, Russia

Mar. 2009 Algebra, geometry & topology seminar, University of Basel, Switzerland

Feb. 2009 Colloquium, Dept. of Mathematics, Higher School of Economics, Moscow, Russia

Jan. 2009 Russian–Japanese School in Representation Theory, University of Kyoto, Japan

Jun. 2008 Representation theory seminar, University of Bonn, Germany;

May 2008 Algebra seminar, University of Cologne, Germany;

May 2008 Algebra and representation theory seminar, Jacobs University Bremen, Germany;

Apr. 2008 Géométrie Algébrique en Liberté XVI, Madrid, Spain;
Jan. 2008 Winter solstice master class on enveloping algebras, Weizmann Institute of Science, Israel;
Nov. 2007 Algebra seminar, University of Lyon 1, France;
Nov. 2007 Representation theory seminar, University of Bonn, Germany;
2007 Two talks, Algebra & Geometry seminar, Fourier Institute, Grenoble, France;
2004–2007 About 10 talks at the Independent University of Moscow and Moscow State University, Russia;
Apr. 2006 French-Russian conference “Journées des jeunes en cotutelle”, Poncelet Laboratory, Moscow, Russia;
Jan. 2004 Graduate seminar, Ecole Normale Supérieure, Paris, France.

Grants, honors, memberships

2004–2007 Grant of the French Government for a joint French–Russian Ph.D. program (Bourse du Gouvernement Français de thèse en cotutelle);
2007–2009 Russian Foundation for Basic Research and Centre National de Recherches Scientifiques (France), research grant No. 07-01-92214;
Since 2007 Member of the French Mathematical Society (SMF).

Reviewing

2007–present Reviewer, Zentralblatt MATH.

Languages spoken

- Russian (native);
- English (fluent);
- French (fluent);
- German (intermediate).

Computer skills

Linux, L^AT_EX, C, Pascal, Maple, LiE.