

Evgeny Smirnov

CURRICULUM VITÆ

Personal Details

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

2004–present *Ph.D. student*, Université Joseph Fourier (Grenoble I), Institut Fourier;

2004–present *Ph.D. student*, Independent University of Moscow;

2004–present *Ph.D. student*, Moscow State University, Dept. of Mechanics and Mathematics (joint supervision)

Thesis supervisors: Michel Brion, Ernest Vinberg

Ph.D. thesis topic: Bruhat decomposition for double Grassmannians

Thesis defense is expected in October 2007.

Research interests

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

Education

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, 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. *On generating sets of ideals defining S -varieties*, Vestnik Moskov. Univ. Ser. I Mat. Mekh. 2005, no. 3, **70**, pp. 3–6 (in Russian). English translation: Moscow Univ. Math. Bull. 60 (2005), no. 3, 1–4 (2006).
2. *Desingularizations of Schubert varieties in double Grassmannians*, 16 pages, accepted to "Functional Analysis and its Applications", 2007. Preprint available on [arXiv:math.AG/0608554](https://arxiv.org/abs/math/0608554).
3. *Bruhat order for two subspaces and a flag*, 30 pages, submitted for publication, 2007. Preprint available on [arXiv:0704.3061](https://arxiv.org/abs/0704.3061).

Teaching Experience

2006–2007 Independent University of Moscow;

Courses taught:

- Geometry 1, exercise sessions (*Spring 2007*).
- Program for foreign students "Math in Moscow", tutoring (*Spring 2007*)
- Grassmannians and flag varieties, course for 3rd–4th year (*Spring 2006*);
- Topology 1, exercise sessions (*Spring 2006*).

1999–2007 Moscow State 57th School, teacher of advanced mathematics in classgroups majoring in mathematics.

Reviewing

2007–present Reviewer, Zentralblatt MATH.

Participation in schools and conferences

2007

- *Transformation groups (conference in honor of the 70th anniversary of E. B. Vinberg)*, Independent University of Moscow, Russia, December 17–22;
- *Rencontres mathématiques “Géométrie tropicale”*, Glanon, France, July 2–6;
- Workshop “*Algebraic and geometric Lie theory*”, CTQM, Aarhus University, Århus, Denmark, June 25–29;
- Colloque tournant “*Groupes, géométrie et représentations*”, Amiens, France, January 18–20.

2006

- *Geometry and Representations*, CIRM, Marseille, France, December 4–8;
- *Journées des jeunes en cotutelle*, Poncelet Laboratory, Moscow, Russia, April 24–26;
- *Géométrie Algébrique en Liberté*, Będlewo, Poland, March 6–10;
- *Advanced School & Conference in Representation Theory and Related Topics*, ICTP, Trieste, Italy, January 9–27.

2005

- *Compact Course in Elliptic Algebras and Derived Categories*, Aarhus University, Århus, Denmark, September 5–9;
- *Cluster Algebras*, CIRM, Marseille, France, May 9–13;
- *Representations and Geometry*, CIRM, Marseille, France, April 11–15;
- Colloque tournant “*Groupes, géométrie et représentations*”, Grenoble, France, January 13–15.

2004

- *Lie Groups in Analysis, Geometry and Mechanics*, MRI, Utrecht, The Netherlands, June 3–25;
- *School in Mathematical Physics*, Bogolyubov Institute for Theoretical Physics, Kyiv, Ukraine, May 3–7;
- *Student Exchange between ENS, Paris, and IUM, Moscow*, Ecole Normale Supérieure, Paris, France, January, 13 – February, 10.

Languages spoken

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