

Curriculum Vitae

MIKHAIL IGNATEV

Personal details

Date and Place of Birth: January 22, 1985, Kuibyshev, Russia
Home Address: Karla Marksa st., 328–37
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Employment

September 2010 – present
Assistant professor, Samara State University, Samara
September 2007 – August 2010
Part-time lecturer, Samara State University, Samara

Academic History

September 2007 – June 2010
Samara State University, Ph.D. in Pure Mathematics (*viva voce*: June 02, 2010, St. Petersburg State University). *Thesis title*: Orbits, representations and characters of unipotent groups. *Thesis supervisor*: Alexander Panov. *Official referees*: Ivan Arzhantsev, Nikolai Vavilov.
September 2002 – June 2007
Samara State University, M.Sc. in Mathematics (diploma with distinction). *Diploma title*: Subregular characters of the unitriangular group over a finite field. *Supervisor*: Alexander Panov.
September 1992 – June 2002
Samara High School “Gymnasia no. 2”, specialized mathematical classgroup, high school certificate with excellent and a gold medal.

Academic visits

September 2011 – December 2011

Moscow State University

September 2012 – December 2012

Moscow State University

Teaching

September 2010 – present

Assistant professor, Samara State University.

September 2011 – December 2011

Assistant teacher, Independent University of Moscow, “Algebra–I”.

September 2007 – August 2010

Part-time lecturer, Samara State University.

In Samara State University, I gave lectures for half-year courses “Combinatorics”, “Lie Algebras and Coding Theory”, “Associative Algebras” and “Geometry and Groups”. I also worked as a tutor for half-year courses “Number Theory”, “Basic Algebra” and “Linear Algebra and Geometry”.

List of publications

1. Kostant–Kumar polynomials and tangent cones to Schubert varieties for involutions in A_n , F_4 and G_2 (in Russian), joint with Dmitriy Eliseev. Zapiski Nauchnykh Seminarov POMI, to appear, see also arXiv: [math.AG/1210.5740](#).
2. The Bruhat-Chevalley order on involutions of the hyperoctahedral group and combinatorics of B-orbit closures (in Russian). Zapiski Nauchnykh Seminarov POMI **400** (2012), 166–188, see also arXiv: [math.RT/1112.2624](#).
3. Combinatorics of B -orbits and the Bruhat–Chevalley order on involutions, Transformation Groups **17** (2012), no. 3, 747–780, see also arXiv: [math.RT/1101.2189](#).
4. Orthogonal subsets of root systems and the orbit method (in Russian). Algebra and Analysis **22** (2010), no. 5, 104–130. English translation: St. Petersburg Math. J., 22 (2011), no. 5, 777–794, see also arXiv: [math.RT/1007.5220](#).
5. On the supports of characters of the unitriangular group (in Russian). Vestnik SamGU, Estestv. Ser. 2009, no. 8(74), pp. 28–34.
6. Orthogonal subsets of classical root systems and coadjoint orbits of unipotent groups (in Russian). Mat. Zametki **86** (2009), no. 1, 65–80. English translation: Math. Notes **86** (2009), no. 1, 65–80, see also arXiv: [math.RT/0904.2841](#).
7. Basic subsystems of root systems B_n and D_n and associated coadjoint orbits (in Russian). Vestnik SamGU, Estestv. Ser. 2008, no. 3(62), 124–148.
8. Coadjoint orbits of the group $UT(7, K)$ (in Russian), joint with Alexander Panov. Fund. i Prikl. Matem. **13** (2007), no. 5, 127–159. English translation: J. Math. Sci. **156** (2009), no. 2, 292–312, see also arXiv: [math.RT/0603649](#).

9. Subregular characters of the unitriangular group over a finite field (in Russian). *Fund. i Prikl. Matem.* **13** (2007), no. 5, 103–125. English translation: *J. Math. Sci.* **156** (2009), no. 2, 276–291, see also arXiv: [math.RT/0801.3079](https://arxiv.org/abs/math.RT/0801.3079).

Selected seminar and conference talks

August 2012

Invited talk at Workshop on Symplectic Geometry with Applications to Representation Theory, Bremen, Germany. *Title*: Coadjoint orbits, involutions in the Weyl group and the Bruhat order.

June 2012

International Conference dedicated to the 65th anniversary of Askold G. Khovanskii, Moscow, Russia. *Title*: Tangent cones to Schubert varieties.

November 2011

Seminar on homologic and homotopic methods in geometry, Higher School of Economics, Moscow. *Title*: The Bruhat order on involutions in the Weyl group.

November 2011

Seminar on Lie groups and invariant theory, Moscow State University. *Title*: The Bruhat order on involutions in the Weyl groups of types A_n and C_n .

April 2011

Two talks at the St. Petersburg branch of Steklov Mathematical Institute of Russian Academy of Sciences.

January 2011

Second School-Conference “Lie algebras, algebraic groups and invariant theory”, Moscow, Russia. *Title*: Orbits of the Borel subgroup of $GL_n(\mathbb{C})$ and the Bruhat order on involutions.

December 2010

Seminar on Lie groups and invariant theory, Moscow State University. *Title*: Combinatorics of B -orbits and the Bruhat order on involutions.

May 2007

International Conference on Algebra and Number Theory dedicated to the 80th birthday of Valentin Voskresenkii, Samara, Russia. *Title*: Subregular subsets and characters of the unitriangular group.

September 2007 – March 2013

About 10 talks at Samara State University.

Reviewing

2008 – present

Math Reviews reviewer

2012 – present

Zentralblatt MATH reviewer