

Evgeny Smirnov

Publications and preprints

2016

Singularities of divisors on flag varieties via Hwang's product theorem, preprint arXiv:1609.07771, 6 pages, submitted.

(with Grigory Merzon) *Determinantal identities for flagged Schur and Schubert polynomials*, European Journal of Mathematics, **2:1**, 227–245 (2016)

(with Victor Kleptsyn) *Ribbon graphs and bialgebra of Lagrangian subspaces*, Journal of Knot Theory and its Ramifications, **26** (2016), 1642006 (26 pages)

Grassmannians, flag varieties and Gelfand–Zetlin polytopes, in: Recent Developments in Representation Theory. Proceedings of Maurice Auslander Distinguished Lectures and International Conference, Contemporary Mathematics series, vol. 673, 179–226. American Mathematical Society, 2016.

2012

(with Valentina Kiritchenko and Vladlen Timorin) *Schubert calculus and Gelfand–Zetlin polytopes*, Uspekhi Mat. Nauk, **64**, No. 4 (406), 89–128 (2012) (in Russian). English translation: Russian Math. Surveys **64:4**, 685–719 (2012).

(with Nicolas Perrin) *Springer fiber components in the two columns case for types A and D are normal*, Bulletin de la Société Mathématique de France, **140:3**, 309–333 (2012).

2008

Desingularizations of Schubert varieties in double Grassmannians, Functional Analysis and its Applications, **42** (2008), no. 2, 126–134.

2007

Orbites d'un sous-groupe de Borel dans le produit de deux grassmanniennes, 70 pages, thèse de doctorat, Université de Grenoble I

Bruhat order for two subspaces and a flag, preprint arXiv:0704.3061, 30 pages

2005

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).

Expository publications, popularization of mathematics

2015

(with Valentina Kiritchenko and Vladlen Timorin) *Ideas of Newton–Okounkov bodies*, Snapshots of Modern Mathematics from Oberwolfach, 12 pages. <http://www.mfo.de/math-in-public/snapshots>

Three glances on the Aztec diamond, 48 p., MCCME, Moscow, 2015 (in Russian). ISBN 978-5-4439-0279-1.

Young diagrams and q-combinatorics, Kvant, **1** (2015), 7–12 (in Russian).

2014

Young diagrams, plane partitions and alternating sign matrices, 64 p., MCCME, Moscow, 2014 (in Russian). ISBN 978-5-4439-0137-4.

2009

Reflection groups and regular polyhedra, 48 p., MCCME, Moscow, 2009 (in Russian). ISBN 978-5-94057-525-2.

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