

Curriculum Vitae

Egor Yasinsky (Yahor Yasinski)

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Born: August 14, 1991 — Vitebsk, Belarus

Nationality: Belarusian (from Belarusian my name is transliterated as “Yahor Yasinski”)

Areas of specialization

Algebraic geometry; birational geometry; Cremona groups; rationality problems; automorphisms of algebraic varieties; geometric group theory.

Language skills

Russian, Belarusian — native speaker
English — fluent written and oral skills
French — basic

Academic Career

- 2009-2014 UNDERGRADUATE: Department of Algebra, Faculty of Mechanics and Mathematics, Lomonosov Moscow State University.
Thesis: «Subgroups of odd order in the real plane Cremona group»,
Supervisor: Yuri G. Prokhorov
- 2014-2018 GRADUATE STUDIES: Department of Algebra, Faculty of Mechanics and Mathematics, Lomonosov Moscow State University, Supervisor: Yuri G. Prokhorov
- 17.05.18 PhD (Candidate of Physico-Mathematical Sciences) defended at Steklov Mathematical Institute, Thesis: «Finite subgroups in the Cremona group over the field of real and complex numbers»
- 2018-present POST-DOC at the University of Basel (under supervision of Jérémy Blanc).

Publications

- 2016 *Subgroups of odd order in the real plane Cremona group*, Journal of Algebra, 461, 87–120, arXiv:1509.08136

2017 *The Jordan constant for Cremona group of rank 2*, Bull. Korean Math. Soc. 2017 Vol. 54, No. 5, 1859-1871, arXiv:1610.09654

2018 *p*-subgroups in automorphism groups of real del Pezzo surfaces, Doklady Mathematics, 97 (2), 129-130.

Automorphisms of hyperkähler manifolds and groups acting on CAT(0) spaces (j.w. Nikon Kurnosov), arXiv:1810.09730.

Awards

2015 The 3rd prize at 19th All-Russian [Möbius Contest](#), Moscow, November 18.

Contest [«Young Russian Mathematics»](#) (ex «Pierre Deligne contest» (2005-2009) and «The Dynasty Foundation contest» (2006-2014)), winner.

Grants

2015-2017 RFFI grant no. 15-01-02164, researcher (principal investigator: Professor Yuri G. Prokhorov)

2016-2018 Russian Science Foundation grant no. 14-50-00005, researcher.

Invited talks

2018 *Automorphisms of hyperkähler manifolds and groups acting on CAT(0) spaces*, One-day conference dedicated to the memory of V. A. Iskovskikh, Moscow, Russia, December 27

On recent progress in classification of finite subgroups of the real plane Cremona group, Journées réelles du CHL, Angers, France, December 3-4

Hyperkähler manifolds and non-positively curved groups, Basel-Dijon-EPFL meeting, Dijon, France, October 10-11

Birational automorphisms of algebraic surfaces over the real and complex numbers, Moscow – St. Petersburg algebraic geometry symposium for young mathematicians, St. Petersburg, France, May 10-11

Finite groups of birational automorphisms, ASGAR Math 2018: Real algebraic geometry and tropical mathematics, Oslo, Norway, May 2-4.

2017 *Finite groups of birational automorphisms*, Basel-EPFL Meeting in Birational Geometry, Basel, Switzerland, November 27-30.

Boundedness results for groups of birational self-maps, EDGE Days 2017, University of Edinburgh, Edinburgh, UK, June 26-30.

The Jordan constant for the plane Cremona group, VI School-Conference «Lie Algebras, Algebraic Groups and Invariant Theory», Lomonosov Moscow State University, Moscow, January 30 — February 4.

2016 *The real Cremona group and its finite subgroups*, Groups of birational automorphisms, HSE, Moscow, November 14–18.

Finite subgroups of the real plane Cremona group, Cremona conference, Basel, Switzerland, September 5–16 (poster).

2015 *Subgroups of odd order in the real plane Cremona group*, Fifth school-conference on algebraic geometry and complex analysis for young russian mathematicians, Koryazhma, August 17–22.

Automorphism groups of real Del Pezzo surfaces, EDGE Days 2015, Edinburgh, June 5.

Subgroups of odd order in the real plane Cremona group, International student, postgraduate and young scientist conference «Lomonosov-2015», MSU, Moscow, April 13.

Selected seminar talks

2018 *Abelianization of plane Cremona groups over different fields (after S. Zimmermann)*, Iskovskikh Seminar, Steklov Mathematical Institute, Moscow, April 19.

2017 *Real forms of algebraic varieties*, Iskovskikh Seminar, Steklov Mathematical Institute, Moscow, October 19.

Real algebraic threefolds after Kollár, Iskovskikh Seminar, Steklov Mathematical Institute, Moscow, May 11.

2016 *Abelianisation of the real plane Cremona group (following S. Zimmermann)*, Iskovskikh Seminar, Steklov Mathematical Institute, Moscow, September 22.

Bertini theorems over finite fields (following Bjorn Poonen), Iskovskikh Seminar, Steklov Mathematical Institute, Moscow, February 11.

Finite subgroups in the real plane Cremona group, Seminar of the Department of Algebra and Number Theory and of the Department of Algebraic Geometry (Shafarevich Seminar), Steklov Mathematical Institute, Moscow, February 9.

2015 *Factorization theorems for volume preserving birational maps of Calabi–Yau pairs (following A. Corti and A.-S. Kaloghiros)*, Iskovskikh Seminar, Steklov Mathematical Institute, Moscow, October 22.

The extension of varieties defined by quadratic equations (following S. Lvovsky), Iskovskikh Seminar, Steklov Mathematical Institute, Moscow, March 19.

2014 *Dynamics of rational self-maps*, Iskovskikh Seminar, Steklov Mathematical Institute, Moscow, October 9.

Rational surfaces with a large group of automorphisms (following S. Cantat and I. Dolgachev), Iskovskikh Seminar, Steklov Mathematical Institute, Moscow, February 27.

2013 *Topologies of the Cremona groups (following J. Blanc and J.-P. Furter)*, Iskovskikh Seminar, Steklov Mathematical Institute, Moscow, October 10.

On subgroups of prime order in the plane Cremona group over the field of real numbers, Iskovskikh Seminar, Steklov Mathematical Institute, Moscow, April 25.

Tutoring experience

2018 Teaching assistant for “Einführung in die Logik” (Introduction to Logic), lecturer — Fabrizio Barroero.

2016 One semester of Algebra-1 at Lomonosov Moscow State University, Department of Mechanics and Mathematics.

Two lectures on “Introduction to birational geometry”, Laboratory of Algebraic Geometry, HSE, Moscow, November 10-11.