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CITIZENSHIP: Russia**DATE OF BIRTH: 31.07.1982****PLACE OF BIRTH: Moscow****EDUCATION:****PhD in Mathematics**

Steklov Mathematical Institute (2007).
Thesis: “Gromov–Witten invariants of Fano Varieties”.
Advisers: V. A. Iskovskikh, V. V. Golyshev.

MS in Mathematics

Moscow State University, Red Diploma (2004).

EMPLOYMENT:

Scientific researcher, Steklov Mathematical Institute, Number Theory department (2007–present).

Postdoc, University of Vienna, Faculty of Mathematics (2008–present).

GANTS:

President Grant MK-503.2010.1 (2010-2011).

NSh-4713.2010.1 (2010-2011).

FWF P20778.

NSh-1987.2008.1 (2008-2009).

RFFI 08-01-00395- (2008-2010).

NSh-9969.2006.1 (2006-2007).

RFFI 05-01-00353 (2005-2007).

RFFI 04-01-00613 (2004-2006).

NSh-489.2003.1 (2003-2006).

PUBLICATIONS:

“New categorical invariants and applications”, in preparation (with L. Katzarkov).

“Landau–Ginzburg models with many potentials and applications”, in prepara-

tion, expected May 2011 (with L. Katzarkov).

“Toric Degenerations of Fano Threefolds Giving Weak Landau–Ginzburg Models”, arXiv:1102.4664 (with N. Ilten).

“Double solids, categories and non-rationality”, arXiv:1102.2130 (with A. Iliev and L. Katzarkov).

“Hori–Vafa mirror models for complete intersections in weighted projective spaces and weak Landau–Ginzburg models”, arXiv:1003.5200 (submitted to CEJM).

“Hodge numbers of Fano threefolds via Landau–Ginzburg models”, arXiv:0911.5428.

“Weak Landau–Ginzburg models for smooth Fano threefolds”, arXiv:0902.4668.

“Generalized Homological Mirror Symmetry and cubics”, Proc. Steklov Inst. Math., vol. 264, 87–95 (with L. Katzarkov).

“Mirror symmetry for Fano threefolds of rank 1”, Theses of international algebraic conference Kurosh–100, MSU, Moscow, 2008.

Thesis “Gromov–Witten invariants of Fano varieties” (in Russian).

“Minimal Gromov–Witten ring”, IZV MATH, 2008, 72:6, 1253–1272, arXiv:0710.4084.

“On Landau–Ginzburg models for Fano varieties”, Comm. Num. Th. Phys., Vol. 1, No. 4, 713–728, 2008, arXiv:0707.3758.

“Quantum cohomology of smooth complete intersections in weighted projective spaces and singular toric varieties”, Math. Sb., 198 (9), 107–122, arXiv:math/0507232.

“Gromov–Witten invariants of Fano threefolds of genera 6 and 8”, Math. Sb., 198 (3), 145–158, 2007, arXiv:math/0410327.

“Hyperelliptic and trigonal Fano threefolds” Izv. Math., 2005, 69 (2), 365–421, arXiv:math/0406143 (with I. Cheltsov and K. Shramov).

“Gromov–Witten invariants of smooth Fano threefolds” (Theses of young researcher’s conference “Lomonosov–2004//”, Meth. Math. MSU, Moscow, 2004, 94–95).

“Gromov–Witten invariants of some Fano threefolds” (Proceedings of young researcher’s conference “Lomonosov–2004”, Meth. Math. MSU, Moscow, 2004, (2) 185–189).

SCHOOLS AND CONFERENCES:

GAEL XI, Marseille, France, April 7 — April 11 2003 (talk “The mirror symmetry view on the classification of Fano 3-fold varieties”).

Lomonosov–2004, Moscow, Russia, April 12 — April 16 2004 (talk “Gromov–Witten invariants for Fano 3-folds with Picard number 1 and mirror symmetry”).

VBAC04, Trieste, Italy, June 21 — June 24 2004 (talk “Gromov–Witten invariants for smooth Fano threefolds”).

Enumerative invariants in algebraic geometry and string theory, Cetraro, Italy, June 6 — June 11, 2005.

Algebraic Geometry Warm-Up Workshop, Seattle, USA, July 18 — July 22, 2005.

Algebraic Geometry and Topological Strings, Lisbon, Portugal, October 9 — November 13, 2005 (talk “Generalized Givental’s theorem and classification of Fan threefolds”).

Classification Problems and Mirror Duality, Moscow, Russia, February 27 — March 4 2006 (organized with V. V. Golyshev, talk “I-series, Quantum Lefschetz and D-infinity”).

GAEL XIV, Bedlewo, Poland, March 6 — March 10 2006.

Clay Mathematics Institute 2006 Summer School on Arithmetic Geometry, Göttingen, Germany, July 17 — August 11 2006 (informal talk “Mirror Symmetry and classification of Fano varieties”).

Kolmogorov’s conference V, Yaroslavl, Russia, May 22 — May 26 2007 (talk “Landau–Ginzburg models of Fano threefolds”).

Moduli spaces of Riemann surfaces and related topics, Montreal, Canada, June 4 — June 15 2007 (talk “A universal series”).

Algebraic Geometry, Symplectic Geometry and Physics, Lausanne, Switzerland, August 20 — August 31 2007.

Swiss–Russian seminar on moduli spaces and physics, Zurich, Switzerland, December 5 — December 7 2007 (talk “Weak Landau–Ginzburg models of Fano varieties”).

Visitor in the University of Miami, Miami, USA, January 16 — February 3 2008.

Visitor in the Princeton University, Princeton, USA, February 3 — February 10 2008 (talk “Weak Landau–Ginzburg models of Fano varieties”).

Exceptional collections and degenerations of varieties, Tokyo, Japan, September 1 — September 5 2008 (talk “Weak Landau–Ginzburg models of Fano varieties”).

Higher Dimensional Algebraic Geometry: Classification, Minimal Models, Fano Varieties and Stacks, Edinburgh, UK, September 22 — September 26, 2008.

Summer School on p-adic Cohomology, Mainz, Germany, September 29 — October 2, 2008.

Invited Lecturer in the University of Edinburgh, Edinburgh, UK, October 4 — October 14, 2008.

Homological Mirror Symmetry and applications, Vienna, Austria, October 14 — October 19, 2008 (talk “Integral structures and quantum differential operators”).

First Cuban Congress on Symmetries in Geometry and Physics, Havana, Cuba, December 15 — December 22, 2008.

Workshop on Homological Mirror Symmetry and Related Topics, Miami, USA,

January 19 — January 24, 2009.

Workshop for Birationalists: Groups of Birational Automorphisms, Pohang, South Korea, March 31 — April 7, 2009 (talk “Weak Landau–Ginzburg models and rationality questions”).

Summer school–conference on problems of algebraic geometry and complex analysis, Yaroslavl, Russia, May 11 — May 16, 2009 (talk “Weak Landau–Ginzburg models and rationality questions”).

Geometry of algebraic varieties, dedicated to the memory of V. A. Iskovskikh, Moscow, Russia, June 29 — July 3, 2009 (co-organizer).

Extremal Laurent polynomials - new approaches to mirror symmetry and classification of Fanos, Warwick, UK, October 19 - October 21 2009 (talk “Weak Landau–Ginzburg models for Fano threefolds and their properties”).

Mirror Symmetry and Gromov-Witten Invariants, Tokyo, Japan, December 7 - December 11, 2009 (talk “Weak Landau–Ginzburg models for Fano threefolds and their properties”).

Workshop on Homological Mirror Symmetry and Related Topics, Miami, USA, January 18 - January 23, 2010.

Algebraic geometry: Methods, Relations, and Applications, dedicated to the 70th birthday anniversary of A.N.Tyurin, Moscow, Russia, February 24 - February 26, 2010 (co-organizer).

Geometry at Large, Vienna, Austria, April 24 - May 7, 2010 (talk “Landau–Ginzburg models”).

Summer School on Mirror Symmetry, Seoul, South Korea, June 21 - June 26, 2010 (series of lectures “Quantitative approach to Mirror Symmetry: weak Landau–Ginzburg models, their properties and invariants”).

Homological Mirror Symmetry and applications, Vienna, Austria, June 26 - June 30, 2010 (talk “Quantitative mirror symmetry”).

6th annual Lunts conference, Grigorovka, Russia, July 19 - July 23, 2010.

Quantum motives: realizations, detection, applications, Bonn, Germany, September 13 - September 14, 2010.

Birational Geometry, in honor of V. Shokurov’s 60th birthday, Edinburgh, UK, December 6 - December 10, 2010.

V Iberoamerican Congress on Geometry, Temuco, Chile, December 10 - December 13, 2010 (talk “Weak Landau–Ginzburg models for Fano threefolds and their properties”).

Workshop on Mirror Symmetry and Related Topics, Miami, USA, January 24 - February 4, 2011 (talk “Weak Landau–Ginzburg models, toric degenerations and multi-potentials”).