IVAN CHELTSOV

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A. CURRICULUM VITAE

- University Education:
 - Johns Hopkins University, Baltimore (USA), 1996–2000,
 - Steklov Institute, Moscow (Russia), 1995–1999,
 - Moscow State University, Moscow (Russia), 1990–1995.
- Degrees awarded:
 - Doctor of Science, Steklov Institute, Moscow (Russia), 2006,
 - Ph.D. in Mathematics, Johns Hopkins University, Baltimore (USA), 2000, advisor: Vyasheslav Shokurov,
 - Ph.D. in Mathematics, Steklov Institute, Moscow (Russia), 1999, advisor: Vasily Iskovskikh,
 - B.Sc. in Mathematics, Moscow State University, Moscow (Russia), 1995.
- Career since graduation:
 - Professor, University of Edinburgh, 2012-present,
 - Reader (Associate Professor), University of Edinburgh, 2008–2012,
 - Lecturer (Assistant Professor), University of Edinburgh, 2004–2008,
 - Postdoctoral Associate, University of Georgia, 2002–2004,
 - Software Engineer, Parametric Technology Corporation, 2001–2002,
 - Lecturer (Assistant Professor), University of Liverpool, 2000–2001.
- Research grants:
 - Simons Collaboration on Moduli of Varieties \$888000, 2024-2028,
 - EPSRC Grant EP/V054597/1, £78027, 2022-2024,
 - Leverhulme Trust grant VP1-2022-004, £52458, 2023,
 - Leverhulme Trust grant RPG-2021-229, £145438, 2021-2025,
 - Royal Society Grant IE180205, £10780, 2018-2020,
 - Royal Society Grant IE111456, £9182, 2012–2014,
 - EPSRC Grant EP/E048412/1, £186379, 2007-2009.
- Postgraduate students supervision:
 - (1) Dimitra Kosta (2005–2009), Royal Society Research Fellow (Edinburgh),
 - (2) Andrew Wilson (2006–2010), Lecturer at the University of Glasgow,
 - (3) Ilya Karzhemanov (2007–2010), Associate Professor at MIPT (Moscow),
 - (4) Dmitrijs Sakovics (2009–2013), Software Developer at Valtech (Bristol),
 - (5) Jesus Martinez Garcia (2010–2013), Senior Lecturer at the University of Essex,
 - (6) Igor Krylov (2013–2016), Senior Research Fellow in IBS (Pohang),

- (7) Nivedita Viswanathan (2017–2021), Lecturer at Queen Mary University London,
- (8) Arman Sarikyan (2020–2024), Research Fellow at London Institute for Mathematical Sciences,
- (9) Antoine Pinardin (2021–present),
- (10) Elena Denisova (2021–present),
- (11) Joseph Malbon (2022–present),
- (12) Raisa Serova (2024–present).
- Membership in societies:
 - Edinburgh Mathematical Society (2008–present),
 - London Mathematical Society (2010–present).
- Editorial experience:
 - Taiwanese Journal of Mathematics, 2023-present,
 - Algebraic Geometry and Physics, 2022–present,
 - Annali dell Universita di Ferrara, 2022-present,
 - International Journal of Mathematics, 2024-present,
 - Journal of the Korean Mathematical Society, 2021-present,
 - European Journal of Mathematics, 2019-present,
 - Proceedings of Edinburgh Mathematical Society, 2007–2017.
- Books published:
 - The Calabi problem for Fano threefolds, Cambridge University Press (2023), LMS lecture series, 450 pages, co-authors: Carolina Araujo, Ana-Maria Castravet, Kento Fujita, Anne-Sophie Kaloghiros, Jesus Martinez-Garcia, Constantin Shramov, Hendrik Süß, Nivedita Viswanathan
 - (2) Birationally rigid Fano threefold hypersurfaces, Memoirs of the American Mathematical Society (2017), 117 pages, co-author: Jihun Park,
 - (3) Cremona groups and the icosahedron, Chapman and Hall/CRC (2015), 527 pages, co-author: Constantin Shramov.
- Books edited:
 - (1) Automorphisms in Birational and Affine Geometry, Springer, 2012.
 - (2) Shokurov volume, European Journal of Mathematics, 2014,
 - (3) Spitsbergen volume, European Journal of Mathematics, 2016,
 - (4) Magadan volume, Bulletin of the Korean Mathematical Society, 2017,
 - (5) Edge volumes I and II, European Journal of Mathematics, 2018,
 - (6) Easter Island volume, European Journal of Mathematics, 2019,
 - (7) Fuerteventura Island volume, EMS Surveys in Mathematical Sciences, 2021,
 - (8) New Zealand volume, European Journal of Mathematics, 2022,
 - (9) Birational Geometry, Kähler–Einstein Metrics and Degenerations, Springer, 2023,
 - (10) Edge volume: 2018–2022, Annali dell'Universita di Ferrara, 2024,
 - (11) Memorial Volume for Sasha Anan'in, Sao Paulo Journal of Mathematical Sciences, 2024.
- Conference and workshop organizer over the last five years:
- (1) Algebraic Geometry Workshop,
 - 16th–18th December 2024, Sydney Mathematical Research Institute, Sydney (Australia), co-organizer: D. Chan, J. Hall, B. Taji, G. Williamson,

- (2) Algebraic Geometry,
 9th–13th December 2024, MATRIX, Creswick (Australia),
 co-organizers: D. Chan, B. Taji, C. Voisin, G. Williamson,
- (3) Birational Geometry and Number Theory,
 28th October 1st November 2024, ICMS, Edinburgh (Scotland),
 co-organizers: D. Loughran, A. Pinardin,
- (4) Fano varieties in Cetraro,
 9th–13th September 2024, Grand Hotel San Michele, Cetraro (Italy),
 co-organizers: A. Fanelli, E. Shinder, S. Zimmermann,
- (5) Varieties with Boundaries,
 25th–28th June 2024, Japan Russia Friendship Center, Wakkanai (Japan),
 co-organizers: Adrien Dubouloz, Takashi Kishimoto, T. Okada,
- (6) Conference on higher dimensional geometry,
 6th May–10th May 2024, Simons Foundation, New York (USA),
 co-organizers: P. Cascini, J. McKernan, C. Xu,
- (7) Algebraic Geometry, Lipschitz Geometry and Singularities, 11th–15th December 2023, Sun Bay Pipa Hotel, Pipa (Brazil), co-organizers: C. Araujo, L. Birbrair, A. Fernandes, M. Pe Pereira, M. Verbitsky,
- (8) Conference on moduli and stability,
 25th October–27th October 2023, Simons Foundation, New York (USA),
 co-organizers: P. Cascini, J. McKernan, C. Xu,
- (9) K-stability and Birational Geometry, Clay Research Conference, Clay Mathematics Institute, Oxford (England), co-organizers: J. Kollár, C. Xu,
- (10) Conference on higher dimensional geometry, 8th May-12ve May 2023, Simons Foundation, New York (USA), co-organizers: P. Cascini, J. McKernan, C. Xu,
- (11) Geometry in Istanbul,
 10th–11th April 2023, Feza Gürsey Center, Istanbul (Turkey),
 co-organizer: U. Varolgunes,
- (12) Birational geometry and K-stability of Fano varieties,
 21st-25th November 2022, University of Edinburgh (Scotland),
 co-organizers: C. Araujo, F. Catanese, A.-S. Kaloghiros,
- (13) Conference on MMP and moduli,
 24th October–28th October 2022, Simons Foundation, New York (USA),
 co-organizers: P. Cascini, J. McKernan, C. Xu,
- (14) Conference on stability and moduli,
 22nd August-26th August 2022, Simons Center, Stony Brook (USA),
 co-organizers: P. Cascini, J. McKernan, C. Xu,
- (15) Conference on higher dimensional geometry,
 23rd February-25th February 2022, Simons Foundation, New York (USA),
 co-organizers: P. Cascini, J. McKernan, C. Xu,
- (16) Fedor Bogomolov's 75th birthday,
 14th–16th January 2022, University College London, London (England),
 co-organizers: P. Cascini, N. Kurnosov,

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(17)	Geometry and Homological Mirror Symmetry,
	11th–14th December 2021, Sirius Mathematics Center (Sochi, Russia),
	co-organizers: L. Katzarkov, Victor Przyjalkowski,
(18)	Explicit K-stability and moduli problems,
	29th November–3rd December 2021, University of Edinburgh (Scotland),
	co-organizers: Jesus Martinez Garcia, AS. Kaloghiros,
(19)	Primorie Mathematical Fair,
	21st–26th July 2021, Far Eastern Federal University (Vladivostok, Russia),
	co-organizers: N. Anisimov, O. Artamonov, L. Katzarkov, E. Kharisova,
	A. Molochkov, A. Ognev, Victor Przyjalkowski,
(20)	Explicit K-stability and moduli problems,
	7th–11h December 2020 (online), University of Edinburgh (Scotland),
	co-organizers: Jesus Martinez Garcia, AS. Kaloghiros,
(21)	Conference on rationality,
	27th Monday–31st July 2020 (online), Simons Foundation, New York (USA),
	co-organizers: P. Cascini, J. McKernan, C. Xu,
(22)	Conference on K-stability,
	28th September–2nd October 2020 (online), Simons Center, Stony Brook (USA),
	co-organizers: P. Cascini, J. McKernan, C. Xu,
(23)	Algebraic Geometry in Auckland,
	16th–20th December 2019, University of Auckland (New Zealand),
	co-organizers: S. Maù, Frederic Mangolte,
(24)	Fano varieties, cone singularities and their links,
	5th–8th November 2019, University of Edinburgh (Scotland),
	co-organizer: H. Süß,
(25)	Birational Geometry, Kähler–Einstein metrics and degenerations,
	8th–13th April (Moscow), 10th–14th June (Shanghai), 18th-22nd November 2019 (Pohang),
	HSE (Russia), ShanghaiTech University (China), IBS Center for Geometry and Physics (Korea),
	co-organizers: X.X. Chen, L. Katzarkov, Jihun Park.
• Lect	ures given as guest lecturer over the last five years:
—	K-stability of smooth Fano 3-folds (three lectures),
	K-Stability, Birational Geometry and Mirror Symmetry, MFO, 2024,
—	Finite subgroups of Cremona groups (five lectures),
	Auckland (New Zealand), December 9th–13th, 2019.

- Conference and workshop talks over the last 5 years:
 - Which cubic 3-folds are rational?,
 - New Developments of Birational Geometry, University of Miami, 2025,
 - K-moduli of four qubits,
 - Moduli of varieties, University of Utah, 2024,
 - Equivariant geometry of singular cubic threefolds,
 - Simons Symposium Geometry over non-closed fields, Schloss Elmau, 2024,
 - Equivariant geometry of singular cubic threefolds,
 Fano varieties, their Geometry and Moduli, KIAS, 2023,
 - Equivariant birational geometry of the three-dimensional projective space,
 Algebras, Groups, Geometry, Invariants and related Topics, Essex (England), 2023,
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- K-stability and space curves of degree 6 and genus 3,
- K-stability of Fano varieties and Birational invariants, Trento (Italy), 2023,
- Birational involutions of the real projective plane that do not fix irrational curves,
- Real Algebraic Geometry and Singularities, Krakow (Poland), 2022,
- Birational involutions of the real projective plane,
- IBS Center for Geometry and Physics 10th Anniversary Conference, Pohang (Korea), 2022, *K-moduli of one-parameter families of smooth Fano threefolds*,
- Higher Dimensional Algebraic Geometry, Johns Hopkins University, Baltimore (USA), 2022, - Equivariant birational geometry of three-dimensional projective space,
- Hodge Theory and Related Topics, University of Miami, Miami (USA), 2022,
- K-stability of three-dimensional smooth Fano varieties, Algebra and Geometry, Yaroslavl (Russia), 2021,
- K-stability of Fano varieties,
- K-stability and Related Topics, American Institute of Mathematics, San Jose (USA), 2020, - Toric G-Solid Fano threefolds
- Birational Geometry, Kähler–Einstein Metrics and Degenerations, Pohang (Korea), 2019,
- Local (intersection) inequalities,
- Kinosaki Algebraic Geometry Symposium, Kinosaki (Japan), 2019,
- K-stability of asymptotically log del Pezzo surfaces,
- AGNES workshop, Boston College, Boston (USA), 2019,
- G-birationally super-rigid Fano varieties with small α-invariants,
 Algebraic Geometry International Conference, KIAS, Seoul (Korea), 2019,
- K-stability of asymptotically log del Pezzo surfaces, Tropical Geometry in Europe, Fiesch (Switzerland), 2019,
- Borisov-Alexeev-Borisov conjecture and its applications,
- Twenty-Sixth Gökova Geometry & Topology Conference, Gökova (Turkey), 2019,
- Rational and non-rational threefolds,
- Rationality of Algebraic Varieties, Schiermonnikoog Island, 2019,
- How to compute δ -invariants of del Pezzo surfaces?,
- Korean–Russian Algebraic Geometry Meeting, Moscow (Russia), 2019.
- Seminar and colloquium talks over the last 5 years:
 - Which cubics admit rational parametrization?,
 - Colloquium, Vassar College, New York (USA), 2024,
 - K-moduli of Fano 3-folds,
 - Seminar on Algebraic Geometry, New York University (USA), 2024,
 - K-moduli of smoothable Fano 3-folds,
 - Mathematics and Statistics Seminar, University of Cyprus, Nicosia (Cyprus), 2024,
 - K-stability of pointless del Pezzo surfaces and pointless Fano threefolds,
 - Algebraic Geometry Seminar, University of Hiroshima, Hiroshima (Japan), 2024, - When a cubic 3-fold is equivariantly rational?,
 - Geometry and Mathematical Physics Seminars, Loughborough (England), 2024, - Equivariant geometry of singular cubic threefolds,
 - Algebraic Geometry Seminar, University of Warwick (England), 2024,
 - Equivariant geometry of singular cubic threefol,
 Algebra, Geometry and Number Theory Seminar, University of Bath (England), 2024,

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- K-moduli of Fano Threefolds of Picard Rank 4 and Degree 24,
- Seminar in Algebraic Geometry, National Taiwan University, Taipei (Taiwan), 2024,
- Equivariant geometry of singular cubic threefolds,
 Algebraic Geometry Seminar, University of Liverpool (England), 2023,
- On K-stability of smooth Fano threefolds,
- Complex Geometry Seminar, University of Toulouse, Toulouse (France), 2022,
- On K-stability of smooth Fano threefolds of Picard rank 3 and degree 18, Geometry Seminar, Ecole Polytechnique, Palaiseau (France), 2022,
- Equivariant birational geometry of three-dimensional projective space,
- Algebraic Geometry Seminar, University of Trento, Trento (Italy), 2022,
- Equivariant birational geometry of three-dimensional projective space,
 Mathematics and Statistics Seminar, University of Cyprus, Nicosia (Cyprus), 2022,
- K-stable Fano threefolds of Picard rank 2 and degree 30,
 Algebraic Geometry Seminar, Higher School of Economics, Moscow (Russia), 2021,
- Kähler-Einstein smooth Fano threefolds of Picard rank 2 and degree 30,
 Geometry and Mathematical Physics Seminar, University of Loughborough (England), 2021,
- K-moduli of one-parameter families of smooth Fano threefolds,
 Cambridge–Oxford–Warwick Seminar, University of Bath (England), 2021,
- Kähler-Einstein smooth Fano threefolds,
 Birational Geometry Seminar (online), National Taiwan University (Taipei), 2021,
- Kähler–Einstein smooth Fano threefolds, Greek Mathematical Seminar (online), Greece, 2021,
- Kähler-Einstein smooth Fano threefolds,
 Algebraic Geometry Seminar (online), IBS (Pohang, Korea), 2021,
- Calabi problem for smooth Fano threefolds, Algebraic Geometry Seminar (online), (Tokyo/Kyoto, Japan), 2021,
- Calabi problem for smooth Fano threefolds,
- Oberseminar (online), MPIM (Bonn, Germany), 2021,
- K-stability for Fano threefolds,
 Oberseminar (online), Institute for Algebraic Geometry, Hannover (Germany), 2020,
- K-stability for Fano threefolds,
 M-Seminar (online), Kansas State University, Manhattan (Kansas, USA), 2020,
- K-stability of smooth Fano threefolds,
 Algebra and Number Theory Seminar, University of Glasgow (Scotland), 2020,
- Calabi problem for smooth Fano threefolds,
- Algebraic Geometry Seminar, Higher School of Economics, Moscow (Russia), 2020,
- Toric G-solid Fano threefolds,
 Algebraic Geometry Seminar, University of Warwick (England), 2019,
- K-stability of asymptotically log del Pezzo surfaces,
 Quantum Geometry of Moduli Spaces Seminar, Aarhus University (Denmark), 2019,
- Caucher Birkar and the famous BAB conjecture,
 Fields Medal Celebration Event, University of Nottingham (England), 2019,
- Borisov-Alexeev-Borisov conjecture and its applications,
 Algebraic Geometry Seminar, Higher School of Economics (Russia), 2019,
- Borisov-Alexeev-Borisov conjecture and its applications, Colloquium, University of Lille (France), 2019.

- Research visits over the last five years:
 - Morlet Chair at CIRM, Luminy (France), 6 months, 2025,
 - Simons Foundation, New York (USA), 1 months, 2024,
 - University of Cyprus, Nicosia (Cyprus), 4 weeks, 2024,
 - University of Saitama (Japan), 2 months, 2024
 - Isaac Newton Institute for Mathematical Sciences (England), 4 weeks, 2024,
 - University of the National Education Commission (Poland), 1 week, 2023,
 - Simons Foundation, New York (USA), 1 months, 2023,
 - Gökova Geometry Topology Institute (Turkey), 2 weeks, 2023,
 - University of Auckland (New Zealand), 3 weeks, 2022,
 - American Institute of Mathematics, San Jose (USA), 1 week, 2022
 - Institut des Hautes Etudes Scientifiques, Bures-sur-Yvette (France), 2 months, 2022,
 - University of Saitama (Japan), 4 weeks, 2022
 - Nemuro, Hokkaido (Japan), 1 week 2022,
 - London Mathematical Society, London (England), 1 week, 2022,
 - University of Cyprus, Nicosia (Cyprus), 1 week, 2022,
 - Max Planck Institute for Mathematics, Bonn (Germany), 6 months, 2021.
- Appointments as external examiner:
 - Pure Mathematics, University of Liverpool (2019–2024),
 - viva examiner for
 - Marta Benozzo (advisor: Paolo Cascini), Imperial College, London (England), 2024,
 - (2) Pascal Fong (advisor: Jeremy Blanc), University of Basel, Basel (Switzerland), 2022,
 - (3) Kobina Jamieson (advisor: Alexander Pukhlikov), University of Liverpool, Liverpool (England), 2017,
 - (4) Sokratis Zikas (advisor: Jeremy Blanc), University of Basel, Basel (Switzerland), 2022,
 - (5) Laura Mallinson (advisor: Hamid Abban), University of Loughborough, Loughborough (England), 2022
 - (6) Claudia Stadlmayr (advisor: Christian Liedtke), Technical University of Munich, Munich (Germany), 2022,
 - (7) Salvatore Tambasco (advisors: Alessandro Ghigi and Cristiano Spotti), University of Pavia, Pavia (Italy), 2020,
 - (8) Kristina Kubiliute (advisor: Konstanze Rietsch), Kings College London, London (England), 2020,
 - (9) Dominic Foord (advisor: Alexander Pukhlikov), University of Liverpool, Liverpool (England), 2020,
 - (10) Jacob Cable (advisor: Hendrick Süeß), University of Manchester, Manchester (England), 2020.
 - (11) Rosemary Taylor (advisor: Gavin Brown), University of Warwick, Coventry (England), 2019,
 - (12) Arthur Tomberg (advisor: Misha Verbitsky), Higher School of Economics, Moscow (Russia), 2019
 - (13) William Montoya (advisor: Ugo Bruzzo), SISSA, Trieste (Italy), 2019

- (14) Fabio Bernasconi (advisor: Paolo Cascini), Imperial College, London (England), 2019,
- (15) Christian Urech (advisors: Jeremy Blanc and Serge Cantat), University of Basel, Basel (Switzerland), 2017,
- (16) Ewan Johnstone (advisor: Alexander Pukhlikov), University of Liverpool, Liverpool (England), 2017,
- (17) Diletta Martinelli (advisor: Paolo Cascini), Imperial College, London (England), 2016,
- (18) Liana Heuberger (advisor: Andreas Höring), University of Paris 6, Paris (France), 2016,
- (19) Michael Selig (advisor: Miles Reid), University of Warwick, Coventry (England), 2015,
- (20) Kalyan Banerjee (advisor: Vladimir Guletskii), University of Liverpool, Liverpool (England), 2014,
- (21) Christopher Inbody (advisor: Charles Boyer), University of New Mexico, Albuquerque (USA), 2013,
- (22) Cristiano Spotti (advisor: Sir Simon Donaldson), Imperial College, London (England), 2012.

B. LIST OF PUBLICATIONS

- (125) Rationality of singular cubic threefolds over ℝ, preprint, arXiv:2411.14379, 2024, co-authors: Yuri Tschinkel, Zhijia Zhang,
- (124) K-stability of pointless del Pezzo surfaces and Fano 3-folds, preprint, arXiv:2411.00767, 2024, co-authors: Hamid Abban, Takashi Kishimoto, Frederic Mangolte,
- (123) Equivariant geometry of singular cubic threefolds, II, preprint, arXiv:2405.02744, 2024, co-authors: Lisa Marquand, Yuri Tschinkel, Zhijia Zhang,
- (122) K-stability and space sextic curves of genus three, preprint, arXiv:2404.07803, 2024,
 co-authors: Oliver Li, Sione Ma'u, Antoine Pinardin,
- (121) K-stable Fano 3-folds in the families 2.18 and 3.4, preprint, arXiv:2304.11334, 2023, co-authors: Kento Fujita, Takashi Kishimoto, Jihun Park,
- (120) Equivariant geometry of singular cubic threefolds, Forum of Mathematics, Sigma, to appear, co-authors: Yuri Tschinkel, Zhijia Zhang,
- (119) K-moduli of Fano threefolds in family 3.10, Moduli, to appear, co-author: Alan Thompson,
- (118) Equivariant geometry of the Segre cubic and the Burkhardt quartic, Selecta Mathematica, to appear, co-authors: Yuri Tschinkel, Zhijia Zhang,

- (117) K-stability of Casagrande-Druel varieties,
 Journal fur die Reine und Angewandte Mathematik, to appear,
 co-authors: Tiago Duarte Guerreiro, Kento Fujita, Igor Krylov, Jesus Martinez-Garcia,
- (116) One-dimensional components in the K-moduli of smooth Fano 3-folds, Journal of Algebraic Geometry, to appear, co-authors: Hamid Abban, Elena Denisova, Erroxe Etxabarri-Alberdi, Anne-Sophie Kaloghiros, Dongchen Jiao, Jesus Martinez-Garcia, Theodoros Papazachariou,
- (115) K-stability of Fano 3-folds of Picard rank 3 and degree 22, Sao Paulo Journal of Mathematical Sciences, to appear,
- (114) On K-stability of P³ blown up along a quintic elliptic curve, Annali dell'Universita di Ferrara 70 (2024), 1165–1192, co-author: Piotr Pokora,
- (113) Birational rigidity and alpha invariants of Fano varieties,
 Higher Dimensional Algebraic Geometry, LMS Lecture Notes, to appear,
 co-authors: Arman Sarikyan, Ziquan Zhuang,
- (112) Degree of irrationality of Fano threefold hypersurfaces, Progress in Mathematics 352, Birkhaüser, to appear, co-author: Jihun Park,
- (111) Birational involutions of the real projective plane,
 Journal of the European Mathematical Society, to appear,
 co-authors: Frederic Mangolte, Egor Yasinsky, Susanna Zimmermann,
- (110) Katzarkov–Kontsevich–Pantev conjecture for Fano threefolds, Proceedings of the Steklov Institute of Mathematics, to appear, co-author: Victor Przyjalkowski,
- (109) On K-moduli of quartic threefolds,
 Algebraic Geometry, to appear,
 co-authors: Hamid Abban, Alexander Kasprzyk, Yuchen Liu, Andrea Petracci,
- (108) On maximally non-factorial nodal Fano threefolds, Revista Matematica Iberoamericana, to appear, co-authors: Igor Krylov, Jesus Martinez Garcia, Evgeny Shinder.
- (107) K-stable smooth Fano threefolds of Picard rank two, Forum of Mathematics, Sigma 12 (2024), paper e41, 64 pages, co-authors: Elena Denisova, Kento Fujita,
- (106) Double Veronese cones with 28 nodes,
 L'Enseignement Mathematique 71 (2025), 1–70,
 co-authors: Hamid Abban, Jihun Park, Constantin Shramov,
- (107) Equivariant pliability of the projective space, Selecta Mathematica 29 (2023), paper 71, 84 pages, co-author: Arman Sarikyan,
- (104) K-stable divisors in P¹ × P¹ × P¹ of degree (1, 1, 2), Nagoya Mathematical Journal 251 (2023), 686–714, co-authors: Kento Fujita, Takashi Kishimoto, T. Okada,
- (103) Toric G-solid Fano threefolds, Selecta Mathematica 29 (2023), paper 22, 45 pages, co-authors: Adrien Dubouloz, Takashi Kishimoto,

(102)	Finite quasisimple groups acting on rationally connected threefolds, Mathematical Proceedings of the Cambridge Philosophical Society 174 (2023), 531–568,
	co-authors: Jeremy Blanc, Alexander Duncan, Yuri Prokhorov,
(101)	K-polystability of two smooth Fano threefolds,
	Springer Proceedings in Mathematics & Statistics 409 (2023), 165–193,
	co-author: Hendrik Süß,
(100)	The Calabi problem for Fano threefolds,
. ,	Cambridge University Press (2023), LMS lecture series, 450 pages,
	co-authors: Carolina Araujo, Ana-Maria Castravet, Kento Fujita, Anne-Sophie Kaloghiros,
	Jesus Martinez-Garcia, Constantin Shramov, Hendrik Süß, Nivedita Viswanathan
(99)	Kähler–Einstein Fano threefolds of degree 22,
	Journal of Algebraic Geometry 32 (2023), 385–428,
	co-author: Constantin Shramov,
(98)	Kummer quartic double solids,
	Rendiconti del Circolo Matematico di Palermo 72 (2023), 1993–2023,
(97)	Fibers over infinity of Landau–Ginzburg models,
. ,	Communications in Number Theory and Physics 16 (2022), 673–693,
	co-author: Victor Przyjalkowski,
(96)	K-stable Fano threefolds of rank 2 and degree 30,
	European Journal of Mathematics 8 (2022), 834–852,
	co-author: Jihun Park,
(95)	Birational self-maps of threefolds of (un)-bounded genus or gonality,
	American Journal of Mathematics 144 (2022), 575–597,
	co-authors: Jeremy Blanc, Alexander Duncan, Yuri Prokhorov,
(94)	On geometry of Fano threefold hypersurfaces,
	Rationality of Varieties, Birkhäuser Basel 342 (2021), 1–14,
	co-authors: Hamid Abban, Jihun Park,
(93)	Cylinders in Fano varieties,
	EMS Surveys in Mathematical Sciences 8 (2021), 39–105,
	co-authors: Jihun Park, Yuri Prokhorov, Mikhail Zaidenberg,
(92)	Del pezzo surfaces with infinite automorphism groups,
	Algebraic Geometry 8 (2021), 319–357,
	co-author: Yuri Prokhorov,
(91)	Cylinders in rational surfaces,
	Sbornik: Mathematics 212 (2021), 399–415,
(90)	Delta invariants of singular del Pezzo surfaces,
	Journal of Geometric Analysis 31 (2021), 2354–2382,
()	co-authors: Jihun Park and Constantin Shramov,
(89)	Coble fourfold, S ₆ -invariant quartic threefolds, and Wiman-Edge sextics,
	Algebra and Number Theory 14 (2020), 213–274,
()	co-authors: Alexander Kuznetsov and Constantin Shramov,
(88)	Stable polarized del Pezzo surfaces,
	International Mathematics Research Notices 2020 (2020), 5477–5505,
	co-author: Jesus Martinez-Garcia,

- (87) Finite collineation groups and birational rigidity, Selecta Mathematica 25 (2019), paper 71, 68 pages, co-author: Constantin Shramov,
- (86) Unstable polarized del Pezzo surfaces, Transactions of AMS 372 (2019), 7255–7296, co-author: Jesus Martinez-Garcia.
- (85) Delta invariants of smooth cubic surfaces, European Journal Of Mathematics 5 (2019), 729–762, co-author: Kewei Zhang,
- (84) Burkhardt quartic, Barth sextic, and the icosahedron, International Mathematics Research Notices 2019 (2019), 3683–3703, co-authors: Victor Przyjalkowski and Constantin Shramov,
- (83) Fano threefolds with infinite automorphism groups, Izvestia: Mathematics 83 (2019), 860–907, co-authors: Victor Przyjalkowski and Constantin Shramov,
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