

## IVAN CHELTSOV

Professor

School of Mathematics

University of Edinburgh

Peter Guthrie Tait Road

Edinburgh EH9 3FD

Scotland

Phone: +44 (131) 650-4881

Fax: +44 (131) 650-6553

E-mail: I.Cheltsov@ed.ac.uk

URL: <http://www.maths.ed.ac.uk/cheltsov>

- Degrees awarded:
  - Doctor of Science, Steklov Institute, Moscow (Russia), 2006,
  - Ph.D. in Mathematics, Johns Hopkins University, Baltimore (USA), 2000,
  - 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.
- 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), Research Assistant at the University of Nottingham,
  - (8) Arman Sarikyan (2020–present),
  - (9) Antoine Pinardin (2021–present),
  - (10) Elena Denisova (2021–present),
  - (11) Joseph Malbon (2022–present).
- Recently organized conferences and workshops:
  - *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,
  - *Conference on MMP and moduli*,  
24th October–28th October 2022, Simons Foundation, New York (USA),  
co-organizers: P. Cascini, J. McKernan, C. Xu,
  - *Conference on stability and moduli*,  
22nd August–26th August 2022, Simons Center, Stony Brook (USA),  
co-organizers: P. Cascini, J. McKernan, C. Xu,
  - *Geometry and Homological Mirror Symmetry*,  
11th–14th December 2021, Sirius Mathematics Center (Sochi, Russia),  
co-organizers: L. Katzarkov, V. Przyjalkowski,
  - *Explicit K-stability and moduli problems*,  
29th November–3rd December 2021, University of Edinburgh (Scotland),  
co-organizers: J. Martinez Garcia, A.-S. Kaloghiros.

- Editorial experience:
  - *Algebraic Geometry and Physics*, 2022–present,
  - *Annali dell Università di Ferrara*, 2022–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*, co-authors: C. Araujo, A.-M. Castravet, K. Fujita, A.-S. Kaloghiros, J. Martinez-Garcia, C. Shramov, H. Süß, N. Viswanathan, Cambridge University Press (2023), LMS lecture series, 450 pages,
  - *Birationally rigid Fano threefold hypersurfaces*, co-author: J. Park, Memoirs of the American Mathematical Society (2017), 117 pages,
  - *Cremona groups and the icosahedron*, co-author: C. Shramov, Chapman and Hall/CRC (2015), 527 pages.
- Recently published papers:
  - (1) *Fibers over infinity of Landau–Ginzburg models*, co-author: V. Przyjalkowski, Communications in Number Theory and Physics **16** (2022), 673–693,
  - (2) *Birational self-maps of threefolds of (un)-bounded genus or gonality*, co-authors: J. Blanc, A. Duncan, Y. Prokhorov, American Journal of Mathematics **144** (2022), 575–597.
  - (3) *Del pezzo surfaces with infinite automorphism groups*, co-author: Y. Prokhorov, Algebraic Geometry **8** (2021), 319–357,
  - (4) *Delta invariants of singular del Pezzo surfaces*, co-authors: J. Park, C. Shramov, Journal of Geometric Analysis **31** (2021), 2354–2382.
  - (5) *Coble fourfold,  $S_6$ -invariant quartic threefolds, and Wiman–Edge sextics*, co-authors: A. Kuznetsov and C. Shramov, Algebra and Number Theory **14** (2020), 213–274,
  - (6) *Stable polarized del Pezzo surfaces*, co-author: J. Martinez-Garcia, International Mathematics Research Notices **2020** (2020), 5477–5505.
  - (7) *Finite collineation groups and birational rigidity*, co-author: C. Shramov, Selecta Mathematica **25** (2019), paper 71, 68 pages,
  - (8) *Fano threefolds with infinite automorphism groups*, co-authors: V. Przyjalkowski and C. Shramov, Izvestia: Mathematics **83** (2019), 860–907,
  - (9) *Which quartic double solids are rational?*, co-authors: V. Przyjalkowski and C. Shramov, Journal of Algebraic Geometry **28** (2019), 201–243,
  - (10) *Unstable polarized del Pezzo surfaces*, co-author: J. Martinez-Garcia, Transactions of AMS **372** (2019), 7255–7296.
  - (11) *Super-rigid affine Fano varieties*, co-authors: A. Dubouloz and J. Park, Compositio Mathematica **154** (2018), 2462–2484,
  - (12) *On flops and canonical metrics*, co-author: Y. Rubinstein, Annali Della Scuola Normale Superiore di Pisa **17** (2018), 283–311,
  - (13) *Affine cones over smooth cubic surfaces*, co-authors: J. Park and J. Won, Journal of the European Mathematical Society **18** (2016), 1537–1564,
  - (14) *Cylinders in singular del Pezzo surfaces*, co-authors: J. Park and J. Won, Compositio Mathematica **152** (2016), 1198–1224,
  - (15) *Two rational nodal quartic threefolds*, co-author: C. Shramov, Quarterly Journal of Mathematics **67** (2016), 573–601.