

# ANNA FELIKSON

## Curriculum Vitae

**E-MAIL:** [anna.felikson@durham.ac.uk](mailto:anna.felikson@durham.ac.uk)

**Homepage:** [www.maths.dur.ac.uk/users/anna.felikson/](http://www.maths.dur.ac.uk/users/anna.felikson/)

### EDUCATION

**1989–1993:** Specialized mathematical high school 1543, Moscow.

**1992–1997:** Undergraduate study at the Independent University of Moscow.

**M.S., 1997:** Mathematics.

**1993–1998:** Undergraduate study at the Moscow State University;

**M.S., 1998:** Mathematics and applied mathematics.

**1997–2002:** Ph.D. study at the Moscow State University and at the Independent University of Moscow.

**Ph.D., 2002:** Mathematics. Title: Coxeter decompositions of polytopes.

Advisers: E. B. Vinberg, O. V. Shwarzman.

### RESEARCH INTERESTS

Cluster algebras, Coxeter groups, hyperbolic geometry, combinatorics of Coxeter polytopes, moduli spaces, low-dimensional topology, Kac-Moody algebras.

### EMPLOYMENT

**2021–present:** Professor in Pure Mathematics, Durham University.

**2016–2021:** Senior Lecturer in Pure Mathematics (Associate Professor), Durham University.

**2013–2016:** Lecturer in Pure Mathematics, Durham University.

**2012:** DFG research associate, Jacobs University Bremen.

**2010–2011:** Visiting researcher, Jacobs University Bremen.

**2009–2010:** Researcher, Max Planck Institute for Mathematics, Bonn.

**2007–2008:** INTAS Postdoctoral Fellow, University of Fribourg, Switzerland.

**2002–2008:** Researcher, Independent University of Moscow.

**1997–2002:** Assistant, Independent University of Moscow.

**1996–2003:** Teacher of mathematics, specialized mathematical high school 1543, Moscow.

### SUPERVISION

**PhD Students:** Oliver Daisey (joint supervision with Tom Ducat and Yue Ren), since October 2021

John Blackman (PhD 2020).

Jon Wilson (PhD 2017).

**MSc Students** 1 in 2013, 3 in 2017, 2 in 2023.

**GRANTS**

**10.2015–1.2018.** EPSRC Standard Grant EP/N005457/1 (PI, £180K).

**Research Associates:** Ilke Canakci 10.2015–12.2016.;  
Philipp Lampe (5.2017–4.2018).

**01.2012–12.2013.** DFG research position (grant FE 1421/2) at Jacobs University Bremen,  
PI, EUR 151K (interrupted after 1 year because of moving to Durham).

**01.2007–12.2009.** RFBR research grant 07-01-00390-a (co-PI).

**01.2007–12.2008.** INTAS postdoctoral fellowship YSF-1000014-5916 (PI).

**01.2006–12.2007.** Grant NSh-5666.2006.1 of President of Russia (co-PI).

**RESEARCH VISITS**

**November 2024** OIST, Okinawa (intended).

**September 2024–December 2024** MPIM, Bonn.

**September 2021–December 2021** INI, Cambridge, programme “Cluster algebras and representation theory”.

**May 2018.** HSE, Moscow.

**September 2017.** TU Berlin.

**August–December 2012.** MSRI, Berkely.

**July 2010–December 2011.** Jacobs University Bremen, Germany.

**January–March 2009.** Institut des Hautes Études Scientifiques, Bures-sur-Yvette.

**November 2004–June 2005.** Max Planck Institute for Mathematics, Bonn.

**September 2004.** University of Fribourg, Switzerland.

**May, July–September 2002.** University of Fribourg, Switzerland (post-doc SNF).

**April–May 1998.** University of Bielefeld, Germany (the program SFB 343 “Diskrete Strukturen in der Mathematik”.)

**RECENT TALKS**

- **January, 2025,** Workshop “Perspectives on Markov Numbers”, Banff (intended).
- **October, 2024,** Conference “New trends in Geometry, Combinatorics, and Mathematical Physics”, Oleron Island, France (intended).
- **8 October, 2024,** Cologne Algebra and Representation Theory Seminar.
- **13 September, 2024,** Conference “Journées de Géométrie hyperbolique”, Fribourg, Switzerland.
- **21 May, 2024,** King’s College London’s Geometry Seminar.
- **3 May, 2024,** Pure Mathematics Colloquium, Southampton.
- **15 January, 2024,** Conference “Cluster Algebras and Its Applications”, Oberwolfach, 2403.
- **15 November, 2023,** North British Geometric Group Theory meeting, Aberdeen.

- **5 June, 2023**, Conference “Cluster algebras and Poisson geometry”, Levico Terme, Italy.
- **15 March, 2023** Seminar “Graphs on surfaces and curves over number fields”, (online).
- **6 February, 2023** Pure Maths Colloquium, Durham.
- **28 June, 2022**, Workshop on Poisson structures and Noncommutative Integrability, U. of Kent.
- **22 June, 2022**, Shabat-70 conference (online).
- **4 May, 2022**, Geometry and Symmetry Seminar, Nottingham, (online).
- **4 April, 2022**, Differential Geometry Seminar, TU Wien, (online).
- **30 March, 2022**, Topology Seminar, Aberdeen.
- **21 March, 2022**, Workshop ”Supergeometry and Bracket Structures in Mathematics and Physics”, Fields Institute, Toronto.
- **9 March, 2022**, workshop ”Arithmetic reflection groups and crystallographic packings”, AIM, San Jose.
- **11 February, 2022**, Algebra Seminar, York.
- **3 December, 2021**, Seminar ”Selected Topics in Mathematics. Online Edition”, Liverpool, (online).
- **11 November, 2021**, Workshop ”Interdisciplinary applications of cluster algebras”, INI, Cambridge, withing the programme “Cluster algebras and representation theory”.
- **16 July, 2021** LMS Undergraduate Summer School 2021, colloquium talk (online).
- **2 February, 2021**, Leeds algebra seminar, (online).
- **17 December, 2020**, ”Arithmetic reflection groups and crystallographic packings”, AIM workshop, (online).
- **28 November, 2020** ICMS, Integrable Days, 65th birthday celebration for Alexander P. Veselov (online).
- **26 October, 2020**, Pure seminar in Algebra/Geometry, Newcastle (online).
- **May, 2020** “Geometry, Combinatorics and Markov Numbers” meeting in Liverpool, (cancelled due to COVID-19).
- **March, 2020**, Workshop “Cluster Algebras and the Geometry of Scattering Amplitudes”, Higgs Centre for Theoretical Physics, Edinburgh.
- **10 December, 2019**, Workshop “Discrete Subgroups of Lie Groups”, Banff.
- **28 November, 2019**, 56 ARTIN meeting, Edinburgh.
- **17 September, 2019**, Colloquium at Open University.
- **21 June, 2019**, Cluster algebras 2019, Kyoto.
- **24 May, 2019**, LMS Women in Maths event, University of Kent.
- **April 7-13, 2019**, Mini-course (2 hours) at Mini-Workshop 1915b: Reflection Groups in Negative Curvature, Oberwolfach.
- **March 22, 2019**, Seminar on Algebra Representations, UNAM, Mexico-city.
- **March 4, 2019** Invited LMS lecture in MathSoc, Lancaster.

- **February 21, 2019** Geometry, Topology and Mathematical Physics Seminar, Manchester.
- **February 8, 2019**, Geometric Group Theory Seminar, Cambridge.
- **January 25, 2019**, Algebra, geometry and topology seminar, Univeristy of Kent.
- **December 10, 2018**, Workshop on Cluster structures in geometry, physics, combinatorics and representation theory, Jerusalem.
- **July 11-14, 2018**, Workshop on Cluster algebras and Algebraic Geometry, 3 lectures, Nottingham.
- **June 29, 2018**, LMS Postgraduate meeting, London.
- **June 14, 2018**, North British Geometric Group Theory meeting, St. Andrews.
- **June 6, 2018**, Workshop on Galois Covers, Grothendieck-Teichmüller Theory and Dessins d'Enfants, Leicester.
- **May 18, 2018** Seminar on Lie Algebras, Riemann Surfaces and Mathematical Physics, Independent University of Moscow.
- **May 17, 2018**, Seminar on Characteristic classes and Intersection theory, HSE, Moscow.
- **May, 2018**, Cluster Algebras and Math Physics, East Lansing (Michigan State Universtiy), poster.
- **April 21, 2018**, conference for Early Career Mathematicians, Durham.
- **March 19, 2018**, conference "Cluster Algebras: Twenty years on", CIRM, Luminy (Marseille, France).
- **January 29, 2018**, Selected topics in Mathematics Seminar, Liverpool.
- **December 19, 2017**, G. B. Shabat's Seminar, MSU, Moscow.
- **December 15, 2017**, Conference "Transformation groups 2017" dedicated to Prof. Ernest Vinberg on the occasion of his 80th birthday, Moscow.
- **October 25, 2017**, Geometry and Math Physics seminar, Loughborough.
- **October 4, 2017**, Pure Maths Colloquium, Sheffield.
- **September 18-20, 2017**, Summer School "Discrete Models in Geometry and Mathematical Physics", 3 lectures, TU Berlin.
- **June, 2017**, Algebraic and Geometric Combinatorics of Reflection Groups, Montreal.
- **May 22, 2017**, Algebra Seminar, York.
- **March 24, 2017**, Journées de Géométrie hyperbolique, Fribourg.
- **January 18, 2017**, East Midlands Seminar in Geometry, Sheffield.
- **October 20, 2016**, Geometry and Topology Seminar, Durham.
- **July 21, 2016**, Representation theory Seminar, Bielefeld.
- **July 13, 2016**, Algebraic Combinatorics and Group Actions, Herstmonceux Castle, UK.
- **May 6, 2016**, Quivers and Bipartite Graphs: Physics and Mathematics, University of Notre Dame, London.
- **March 11, 2016**, Workshop on Cluster Algebras and Geometry, Münster.

- **November 27, 2015**, Integrable Day at Loughborough.
- **November 20, 2015**, Departmental Colloquium in Liverpool.
- **November 18, 2015**, Undergraduate Colloquium, Durham.
- **July 23, 2015**, Workshop on Lie Groups and Algebraic Groups, Bielefeld.
- **June 5, 2015**, Workshop on Cluster Algebras and Finite Dimensional Algebras, Leicester.
- **May 7, 2015**, Geometry Seminar, Manchester.
- **December 15, 2014**, Conference in Cluster Algebras in Combinatorics and Topology, KIAS, Seoul.
- **October 29, 2014**, Pure Maths Seminar, Lancaster.
- **October 17, 2014**, LMS workshop on Cluster Algebras and Preprojective Algebras at the School of Mathematics, Cardiff.
- **May 29, 2014**, 4th Workshop on Combinatorics of Moduli Spaces, Cluster Algebras, and Symplectic Invariants, Moscow.
- **February 7, 2014**, Pure Maths Seminar, Southampton.
- **October 1, 2013**, Pure Maths Seminar, Leicester.
- **May 16, 2013**, Algebra and Geometry Seminar, Newcastle.
- **March 20, 2013**, Workshop on Triangulations and Mutations, Newcastle.
- **February 11, 2013**, Pure Maths Colloquium, Durham.
- **February 7, 2013**, Geometry and Topology Seminar, Durham.
- **December 28, 2012**, Seminar on Lie Algebras, Riemann Surfaces and Mathematical Physics, Independent University of Moscow.
- **October 31, 2012**, Workshop on Cluster Algebras in Combinatorics, Algebra, and Geometry, MSRI, Berkeley.
- **June 23, 2012**, Workshop on Geometry, Representation Theory and Clusters, Leicester.
- **March 8, 2012**, Geometry Seminar, Durham.
- **March 5, 2012**, Algebra, Geometry, and Intergable Systems Colloquium, Leeds.
- **July 21, 2011**, Workshop on Lie Groups and Algebraic Groups, Bielefeld.
- **December 24, 2010**, Seminar on Lie Algebras, Riemann Surfaces and Mathematical Physics, Independent University of Moscow.
- **December 15, 2010**, Seminar on Lie Groups and Invariant Theory, Moscow State University.
- **October 5, 2010**, Dynamics Seminar, Jacobs University Bremen.
- **July 2, 2010**, Teichmüller Theory and its Interactions in Mathematics and Physics, Centre de Recerca Matemàtica, Barcelona, Spain.
- **June 16, 2010**, Seminar on Groups and Geometry, Bielefeld.
- **June 3, 2010**, Computational Algebra and Number Theory seminar, Dusseldorf.

- **May 27, 2010**, 2nd Workshop on Combinatorics of Moduli Spaces, Cluster Algebras, and Symplectic Invariants, Moscow.
- **April 20, 2010**, Oberseminar on Algebra and Algebraic Combinatorics, Hannover.
- **March 26, 2010** The second W.Killing and K.Weierstrass Colloquium, Braniewo, Poland.
- **February 1, 2010**, Topics in Topology seminar, MPI, Bonn.

## OTHER PROFESSIONAL ACTIVITIES

- Refereeing/Reviewing/Evaluating:
  - **Referee for (over 40 journals):** Advances in Mathematics; Algebraic and Geometric Topology; Annales de l'Institut Fourier; Annals of Combinatorics; Bulletin of the LMS; Canadian Mathematical Bulletin; Communications in Mathematics; Compositio Mathematica; Discrete and Computational Geometry; Electronic Research Announcements in Mathematical Sciences; l'Enseignement Mathématique; European Journal of Combinatorics; Experimental Mathematics; FPSAC 2023; Geometriae Dedicata; Journal of Algebra; Journal of Combinatorial Theory, Series A; Journal of Differential Geometry; Journal of Geometry and Physics; Journal of Lie Theory; Journal of Modern Dynamics; Journal of Pure and Applied Algebra; International Mathematical Research Notices; Involve, a Journal of Mathematics; Izv. RAN, Seriya matem.; Mathematics of Computation; Mathematische Nachrichten; Matematicki Vesnik; Pacific Journal of Mathematics; Proceedings of the Edinburgh Mathematical Society; Proceedings of the Japan Academy, Series A; Proceedings of the LMS; Publications mathématiques de l'IHES; Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas; Science China Mathematics; Selecta Mathematica; SIGMA; Studia Scientiarum Mathematicarum Hungarica: Combinatorics, Geometry and Topology; The Mathematical Intelligencer; Transformation Groups; Transactions of AMS.
  - **External Referee for**
    - peer review of grant applications to National Science Centre Poland (2024);
    - peer review of grant applications to Independent Research Fund Denmark (2021);
    - peer review of grant applications to EPSRC (2019);
    - peer review of grant applications to BASIS foundation (2019);
    - peer review of grant applications to The Israel Science Foundation (2018);
    - peer review for application to “Russian Young Mathematics” contest (2017);
    - peer review of grant applications to Austrian Science Fund (FWF) (2017);
    - peer review of grant applications to NSA Mathematical Sciences Grant Program (2015);
    - peer review of grant applications to French National Research Agency ANR (2015).
  - **Panel member** in NT-1 panel for Swedish Vetenskapsrådet (Science Council) evaluating applications for research support in mathematics, in 2018-2019, 2019-2020 and 2020-2021.
  - **Mathematics Discipline Reviewer** for Research Quality Review, University College Cork, Ireland (2015).
  - **External Referee** on new book proposals to Cambridge University Press (two book drafts considered, 2018, 2022).
  - **External Referee** on new book proposal to Springer Nature, Birkhäuser mathematics book program (1 book draft considered, 2023).
  - **Reviewer:** member of the UKRI Talent Peer Review College (PRC).

- **PhD examiner (4 internal, 9 external):**
  - external reviewer: Azzurra Ciliberti, (2024, Rome)
  - internal: Wanchalerm Promduang, (2022, Durham);
  - external: Grigory Chelnokov, (2021, Moscow);
  - external: Thomas Honey, (2020, Manchester);
  - external: Joe Pallister, (2020, Kent);
  - external: Diego Fernando Velasco Martínez, (2019, UNAM);
  - internal: Irene Pasquinelli (2018, Durham);
  - external: Thomas Booker-Price (2017, Lancaster);
  - internal: John Lawson (2017, Durham);
  - external: Rafael Guglielmetti (2017, Fribourg);
  - external: Hannah Vogel (2016, Graz);
  - external: Heather Riley (2015, Liverpool);
  - internal: John Mcleod (2013, Durham).
  
- **Association for Mathematical Research (AMR):**
  - **Member of AMR Reviews Scientific Committee** selecting and refereeing papers for AMR Reviews (since 2022).
  - **Member of AMR-RMA Scientific Committee:** Scientific Committee for AMR-RMA Association for Mathematical Research – Recent Advances in Mathematics Lecture Series (since 2023).
  - **Member of Editorial Board for Journal of AMR** (since 2023).
  - **Resources: Research-supporting webpages:** collecting resources and maintaining webpage, (since 2023, in progress).
  
- **Organising:**
  - **Co-Organiser** of a School and a conference “Representation theory at the intersection of algebraic geometry, combinatorics and polytopes”, 18th-30th of November 2024, OIST, Okinawa, Japan.
  - **Co-Organiser** of LMS Northern Regional Meeting and Workshop “Continued Fractions and SL<sub>2</sub>-tilings”, Durham, 25 - 28 March 2024.
  - **Co-Organiser** of OCAS (Online Cluster Algebra Seminar), weekly seminar, 2020-2021.
  - **Organiser** of North British Geometric Group Theory Seminar meetings in Durham: 12 March 2014, 4 March 2015, 22 February 2016, 18 October 2017, 6 February 2019, 27 April 2022, 19 February 2025.
  - **Organiser** of Durham Pure Maths Colloquium (09.2013 – 03.2019).
  
- **Administrative duties:**
  - **Member** of Department Progression and Promotion Committee (DPPC) (since 10.2021)
  - **Chair** of Board of Examiners for MSc in Math Sciences (11.2019-9.2024)
  - **Secretary** of Board of Examiners for MSc in Math Sciences (06.2014 – 10.2019)
  - **Member** of Research Committee (10.2015 – 12.2023)
  - **Secretary** of Management Board of MSc in Mathematical Sciences (10.2014 – 10.2019)
  
- **Translation** into Russian of W. P. Thurston’s book “Three-Dimensional Geometry and Topology” (parts 1, 2).

**TEACHING AT DURHAM****Current:** ○ Course: Geometry III/V;

- Projects: “Geometric constructions” (2 students in Year III 2023/2024);  
“Ptolemy Relation and Friends” (3 students in Year IV 2023/2024);

**Previous:** ○ Courses: Geometry III/IV, Riemannian Geometry IV, Differential Geometry III.

- Tutorials: Complex Analysis II, Analysis I, Linear Algebra I.
- Projects: “Non-crossing Partitions” (2 students in Year IV 2022/2023);  
“Associahedron” (3 students in Year III 2020/2021);  
“Billiards and Kaleidoscopes” (3 students in Year IV 2020/2021);  
“Geometries” (3 students in Year III 2019/2020);  
“Combinatorics of polytopes” (2 students in Year III 2018/2019);  
“Continued Fractions” (2 students in Year IV, 2018/2019).  
“Projective geometry” (2 students in Year III, 2017/2018);  
“Cluster algebras” (2 students in Year IV, 2017/2018);  
“Billiards” (2 students in Year III, 2016/2017);  
“Markov Numbers” (2 students in Year IV, 2016/2017).  
“Curves on Surfaces” (1 student in Year IV, 2015/2016).  
“Frieze patterns” (4 students in Year III, 2014/2015).  
“Catalan numbers” (4 students in Year III, 2013/2014).

**PAST TEACHING****2007-2008.** Math club for 12-16 years old students, Michigan State University.**2006** ”Math in Moscow” program for American students at the Independent University of Moscow:

- Non-Euclidean Geometry, Topology.

**1997-2007** Independent University of Moscow:

- Algebra, Geometry, Hyperbolic Geometry, Topology, Möebius Geometry, Complex Analysis;
- Advanced algebra, Riemannian Geometry, Differential Geometry.

**1996-2003** Teacher of mathematics at the specialized mathematical high school 1543, Moscow:

- various courses including set theory, combinatorics, basic number theory, algebra, calculus;
- **1999-2000.** ”Vector fields, manifolds and non-Euclidean geometry” for last year students.
- **1998-1999.** A course ”Amusing Math” for 10-years old students.



**OUTREACH ACTIVITIES**

- **Online courses for Ukrainian 10-13 years old children:**

Developing and delivering original courses, aiming to bring participants to various topics in contemporary mathematics through creative problem solving.

- **October 2023 – June 2024** “Japanese Temple Geometry” (32 hours).
- **October 2022 – June 2023** Geometry courses:
  - “Geometry in Figures” (9 hours),
  - “Geometries” (10 hours),
  - “How to solve it” (10 hours).
- **October 2022 – June 2023** “Geometry around us” (29 hours).
- **June – September 2022.** “Mathematics and Art” (11 hours).

- **In-person talks:**

- **March 2023** talk for **Maths Unbounded** day, for 270 high school students, Durham.
- **October 12, 2019.** Saturday Morning Science session at Durham University.
- **December 21, 2018.** Talk for high school students, School 1543, Moscow.
- **May 16, 2018.** Talk for high school students, School 1543, Moscow.
- **May 3, 2017.** Talk for high school students, Durham Johnston School, Durham.
- **September 25, 2012.** Advance Section of The Berkeley Math Circle, Berkeley.
- **March, 1998** Talk for high school students, School 2, Moscow.

**PERSONAL INFORMATION**

**Born:** June 11, 1976, Moscow, USSR.

**Citizenship:** citizen of UK, citizen of Russia.

**Marital status:** married, three children (born 2000, 2003 and 2011).

**Languages:** Russian (native), German (basic), English.

**PUBLICATIONS****RECENT PREPRINTS**

- [1] (with O. Karpenkov, K. Serhiyenko, P. Tumarkin) *3D Farey graph, lambda lengths and  $SL_2$ -tilings*, arXiv:2306.17118 .
- [2] *Ptolemy relation and Friends*, AMR review, arXiv:2302.06379.

**PUBLISHED PAPERS**

- [3] (with P. Tumarkin, E. Yildirim), *Polytopal realizations of non-crystallographic associahedra*, accepted by Algebraic Combinatorics.
- [4] (with P. Tumarkin) *Cluster algebras of finite mutation type with coefficients*, accepted to Journal of Combinatorial Algebra.
- [5] (with P. Lampe) *Exchange graphs for mutation-finite non-integer quivers*, Journal of Geometry and Physics, (2023) 188, 29 pages.
- [6] (with P. Tumarkin) *Mutation-finite quivers with real weights*, Forum of Mathematics, Sigma (2023) 11: e9, 22 pages.
- [7] (with I. Canakci, A. Garcia Elsener, P. Tumarkin) *Friezes for a pair of pants*, Seminaire Lotharingien de Combinatoire (2022) 86B: 32, 12 pages.
- [8] (with J. W. Lawson, M. Shapiro and P. Tumarkin) *Cluster algebras from surfaces and extended affine Weyl groups*, Transform. Groups. 26 (2021), 501–535.
- [9] (with I. Canakci) *Infinite rank surface cluster algebras*, Advances in Mathematics 352 (2019): 862–942.
- [10] (with P. Tumarkin) *Geometry of mutation classes of rank 3 quivers*, Arnold Mathematical Journal, (2019) 5(1): 37–55.
- [11] (with P. Tumarkin) *Acyclic cluster algebras, reflection groups and curves on a punctured disc*, Advances in Mathematics 340 (2018) 855–882.
- [12] (with P. Tumarkin) *Bases for cluster algebras from orbifolds*, Advances in Mathematics, 318 (2017), 191–232.
- [13] (with S. Natanzon) *Double pants decompositions revisited*. Moscow Math. J., 17(1): 51–58.
- [14] (with P. Tumarkin) *Coxeter groups, quiver mutations and geometric manifolds*, J. London Math. Soc., 94 (2016), 38–60.
- [15] (with P. Tumarkin) *Coxeter groups and their quotients arising from cluster algebras*, Int. Math. Res. Notices (2016), 5135–5186.
- [16] (with J. Fintzen and P. Tumarkin) (2014). *Reflection subgroups of odd-angled Coxeter groups*. Journal of Combinatorial Theory, Series A 126 (2014), 92–127.
- [17] (with M. Shapiro, H. Thomas and P. Tumarkin) *Growth rate of cluster algebras*. Proc. London Math. Soc. 109 (2014), 653–675.
- [18] (with P. Tumarkin) *Essential hyperbolic Coxeter polytopes*. Israel Journal of Mathematics 199 (2014), 113–161.

- [19] (with M. Shapiro and P. Tumarkin) *Cluster algebras and triangulated orbifolds*. Advances in Mathematics 231 (2012), 2953–3002.
- [20] (with S. Natanzon) *Moduli via double pants decompositions*. Differential Geometry and its Applications 30 (2012), 490–508.
- [21] (with M. Shapiro and P. Tumarkin) *Cluster algebras of finite mutation type via unfoldings*. Int. Math. Res. Notices 8 (2012), 1768–1804.
- [22] (with M. Shapiro and P. Tumarkin) *Skew-symmetric cluster algebras of finite mutation type*. J. Eur. Math. Soc. 14 (2012), 1135–1180.
- [23] (with P. Tumarkin) *Hyperbolic subalgebras of hyperbolic Kac-Moody algebras*. Transform. Groups 17 (2012), 87–122.
- [24] (with S. Natanzon) *Labeled double pants decompositions*. Moscow Math. J. 11 (2011), 505–519.
- [25] (with S. Natanzon) *Double pants decompositions of 2-surfaces*. Moscow Math. J. 11 (2011), 231–258.
- [26] (with M. D. Sikiric and P. Tumarkin) *Automorphism group of root systems matroids*. Europ. J. Combin 32 (2011), 383–389.
- [27] (with P. Tumarkin) *Reflection subgroups of Coxeter groups*. Trans. Amer. Math. Soc. 362 (2010), 847–858.
- [28] (with P. Tumarkin) *On Coxeter polytopes with a unique pair of disjoint facets*. J. Combin. Theory A 116 (2009), 875–902.
- [29] (with A. Retakh and P. Tumarkin) *Regular subalgebras of affine Kac-Moody algebras*. J. Phys. A: Math. Theor. 41 (2008) 365204 (16pp).
- [30] (with P. Tumarkin) *On Coxeter polytopes with mutually intersecting facets*. J. Combin. Theory A 115 (2008), 121–146.
- [31] (with P. Tumarkin) *On compact hyperbolic  $d$ -polytopes with  $d + 4$  facets*. Trans. Moscow Math. Soc. 69 (2008), 105–151.
- [32] (with P. Tumarkin) *On simple ideal Coxeter hyperbolic polytopes*. Izv. Math. 72 (2008), 113–126.
- [33] (with P. Tumarkin) *Euclidean simplices generating discrete reflection groups*. Europ. J. Combin. 28 (2007), 1056–1067.
- [34] (with P. Tumarkin and T. Zehrt) *On hyperbolic Coxeter  $n$ -polytopes with  $n + 2$  facets*. Adv. Geom. 7 (2007), 177–189.
- [35] (with P. Tumarkin) *Reflection subgroups of Euclidean reflection groups*. Sb. Math. 196 (2005), 1349–1369.
- [36] *Coxeter decompositions of hyperbolic tetrahedra*. J. Math. Sci. 128 (2005), 3504–3514.
- [37] *Coxeter decompositions of hyperbolic pyramids and triangular prisms*. Math. Notes 75 (2004), 583–593.
- [38] *Lambert cube generating a discrete reflection group*. Math. Notes 75 (2004), 250–258.
- [39] *Spherical simplices generating discrete reflection groups*. Sb. Math. 195 (2004), 585–598.
- [40] (with P. Tumarkin) *Reflection subgroups of reflection groups*. Funct. Anal. Appl. 38 (2004), 313–314.

- [41] *Coxeter decompositions of spherical simplices with fundamental dihedral angles*. Russian Math. Surveys 57 (2002), 420–421.
- [42] *Coxeter decompositions of hyperbolic simplices*. Sb. Math. 193 (2002), 1867–1888.
- [43] *Coxeter decompositions of hyperbolic polygons*. Europ. J. Combin. 19 (1998), 801–817.
- [44] *On Thurston signatures*. Russian Math. Surveys 52 (1997), 826–827.

#### OTHER PREPRINTS

- [45] (with P. Tumarkin) *A series of word-hyperbolic Coxeter groups*. arxiv:math.GR/0507389.
- [46] (with P. Tumarkin) *Three symmetries groups*. Bielefeld, no. 98-104.