

TARAS E. PANOV

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PERSONAL RECORD:

Born 10 February 1975 in Kiev, Ukraine, USSR. Russian citizen. Married, one daughter.

EDUCATION AND DEGREES:

2009:

Doctor of Sciences thesis (a profound scientific research work required for attaining higher academic positions or professorships in the former USSR). Moscow State University.
Title “Topology and combinatorics of torus actions”, to be defended 25 December 2009.

1996–1999:

Candidate of Sciences degree (Ph.D. equivalent in the former USSR).
Moscow State University. Advisor: Prof. Victor M. Buchstaber.
Title: “Topological invariants of manifolds with T^n - or \mathbb{Z}/p -action”,
defended 11 June 1999.

1991–1996:

Diploma of Higher Education (equivalent to M.Sc.).
Moscow State University.
Diploma *cum laude*, 1996. Advisor: Prof. Victor M. Buchstaber.

EMPLOYMENT HISTORY:

September 2001–present time:

Docent (equivalent to associate professor), Faculty of Mathematics and Mechanics,
Moscow State University.

September 2000–present time:

Research fellow, Institute for Theoretical and Experimental Physics, Moscow.

April 2008–present time:

Leading research fellow, Institute for Information Transmission Problems, Russian Academy of Sciences.

September 2005–July 2006:

Japan Society for the Promotion of Science postdoctoral research fellow, Department of Mathematics, Osaka City University, Osaka (host: Prof. Mikiya Masuda).

February 2001–February 2002:

Royal Society/NATO postdoctoral fellow, Department of Mathematics, University of Manchester, U.K (host: Prof. Nigel Ray).

September 1999–September 2001:

Assistant professor, Faculty of Mathematics and Mechanics, MSU.

1997–1999:

Junior research fellow, Faculty of Mathematics and Mechanics, MSU.

RESEARCH INTERESTS:

Algebraic and differential topology (cobordism theories and genera, torus actions, homotopy theory), algebraic geometry (toric varieties), combinatorics and combinatorial geometry (polytopes, complexes, arrangements).

HONOURS AND GRANTS AWARDED:

2007–2009:

Pierre Deligne Prize and Stipend (awarded as the winner of the 2006 Pierre Deligne contest; funded by P. Deligne's 2004 Balzan prize in Mathematics.).

2005–2006:

Japan Society for the Promotion of Science (JSPS) postdoctoral research fellowship, Dept. of Math., Osaka City University (host: Prof. Mikiya Masuda).

2005:

London Mathematical Society grant for young Russian mathematicians, University of Manchester.

2004:

Prize of the International Academic Publishing Company 'Nauka/Interperiodica' for the best publications in its journals.

2004:

Moscow Mathematical Society Prize for young mathematicians for the series of works "Invariants of manifolds with group actions".

2001, 2002, 2003:

State Prize for young researchers, Russian Ministry of Nuclear Energy, Institute for Theoretical and Experimental Physics, Moscow.

2001–2002:

Royal Society/NATO Postdoctoral Research Fellowship, Dept. of Math., University of Manchester (host: Prof. Nigel Ray).

1998–1999:

Participated in the INTAS long-term research grant INTAS 96-0770.

1996–present time:

Ongoing participation in several research projects funded by the Russian Foundation for Basic Research (RFFI) and the Russian Leading Scientific School Support programme (grants 96-01-00054, 96-15-96027, 96-01-01404, 99-01-00090, 00-15-96011, 01-01-00546, 02-01-00659, 04-01-00702, 05-01-01032, 08-01-00541, 08-01-91855-KO, 2185.2003.1, 4182.2006.1, 1824.2008.1).

1994–1995:

Participated in the long-term research grants M3Z000, M3Z300 of the International Soros Foundation.

RESEARCH VISITS:

November 2009, January 2008: Fudan University, Shanghai, China.

November 2008, July 2008, February 2007: University of Manchester, U.K.

August 2008: Sobolev Institute of Mathematics, Novosibirsk, Russia.

July–August 2007, November–December 2004, November–December 2002: Osaka City University, Japan; 21st Century COE Programme.

February 2006: Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea.

July 2005: Australian National University, Canberra, Australia.

January 2005: University of Manchester, U.K.; London Mathematical Society grant for young Russian mathematicians.

July 2004: UMIST, U.K.; Royal Society Visiting Fellowship.

August 2003–February 2004: University of Manchester, U.K.; EPSRC Visiting Fellowship.

January–February 2003: Universitat Autònoma de Barcelona, Spain.

November–December 2002: Osaka City University, Japan.

September 2002: Isaac Newton Institute for Mathematical Sciences, Cambridge, U.K.

SELECTED CONFERENCES TALKS:

30 August–6 September 1998:

International conference dedicated to the 90th Anniversary of L. S. Pontrjagin, Moscow, Russia (satellite of the ICM'98, Berlin); 35-min. talk "Torus actions and the Eilenberg-Moore spectral sequences".

3–7 September 2001:

Algebraic Topology Conference, Nantes, France; plenary talk "Combinatorics, topology and homotopy theory of toric spaces".

8–10 September 2003:

18th British Topology Meeting, Manchester, U.K.; 1 hour invited talk "The cohomology of torus manifolds".

18–24 April 2004:

International meeting "Cohomological Aspects of Hamiltonian Group Actions and Toric Varieties", Oberwolfach, Germany; 1 hour invited talk "Rational aspects of toric topology".

17–19 November 2004:

Symposium on Transformation Groups, Tokyo, Japan; 50 min invited talk.

11–21 July 2005:

Categories in Algebra, Geometry and Mathematical Physics, Conference in honour of Ross Street's sixtieth birthday, Sydney and Canberra, Australia; 40 min invited talk "Model categories and homotopy colimits in toric topology".

22–26 May 2006:

RIMS Conference "Methods of Transformation Group Theory", Kyoto, Japan; 1 hour invited talk "Topology of Kempf-Ness sets for algebraic torus actions".

17–27 July 2007:

Osaka City University Summer School on Symplectic Geometry and Toric Topology; series of lectures "Toric topology and complex cobordism".

7–11 July 2008:

International Conference "New Horizons in Toric Topology", Manchester, U.K.; 1 hour plenary talk "Moment-angle manifolds: recent developments and perspectives".

6–11 July 2009:

International Conference on Algebraic Topology CAT'09, Warszawa, Poland; plenary talk.

MEMBER OF ORGANISING COMMITTEES:

- “Solitons, geometry and topology: on the crossroads”, International conference in honour of Sergey Novikov (Moscow, May 1998);
- “Geometric topology, discrete geometry and set theory”, L. V. Keldysh Centenary conference (Moscow, August 2004).
- International Conference on Toric Topology (Osaka, Japan, May 2006).
- International Conference “Differential Equations and Topology” dedicated to the Centennial Anniversary of L.S.Pontryagin (Moscow, June 2008).

SEMINAR TALKS:

Moscow State University, Steklov Institute of Mathematics, Independent University of Moscow, Institute for Theoretical and Experimental Physics (Moscow), Steklov Institute of Mathematics (St. Petersburg), Sobolev Mathematical Institute (Novosibirsk), Fudan University (China), Universitaet Osnabrueck (Germany), Universities of Kyoto, Okayama, Osaka, Osaka City (Japan), Universitat Autònoma de Barcelona (Spain), Universities of Aberdeen, Bristol, Edinburgh, Leicester, Loughborough, Manchester, Sheffield (U.K.).

SELECTED PUBLICATIONS:

- [1] *Torus actions and their applications in topology and combinatorics* (with V. M. Buchstaber). University Lecture Series, vol. 24, American Mathematical Society, Providence, RI, 2002 (152 pages).
- [2] *Cohomology of face rings, and torus actions*. in “Surveys in Contemporary Mathematics”. London Math. Soc. Lecture Note Series, vol. **347**, Cambridge, U.K., 2008, pp. 165–201; arXiv:math.AT/0506526.
- [3] *Torus graphs and simplicial posets* (with H. Maeda and M. Mikiya Masuda). Advances in Math. **212** (2007), no. 2, 458–483; arXiv:math.AT/0511582.
- [4] *Toric genera* (with V. Buchstaber and N. Ray). Preprint (2009), submitted to IMRN; arXiv:0908.3298.
- [5] *Cobordism classification of manifolds with simple Z/p -action*. Mat. Zametki 63 (1998), no. 2, 260–268 (in Russian). English translation: Math. Notes 63 (1998), no. 1–2, 225–232.

REFEREING:

Acta Mathematica, Advances in Mathematics, Algebraic and Geometric Topology, Central European Journal of Mathematics, Contemporary Mathematics, Forum Mathematicum, Mathematische Zeitschrift, Journal of Algebraic Combinatorics, Moscow Mathematical Journal, Osaka Journal of Mathematics, Proceedings of the Edinburgh Mathematical Society, Proceedings of the Steklov Institute of Mathematics, Progress in Mathematics, Russian Mathematical Surveys, Siberian Mathematical Journal, Sbornik Mathematics, Topology and its Applications, Transformation Groups.

PUBLICATIONS (FULL LIST):

МОНОГРАФИИ / MONOGRAPHS

- [1] Victor M. Buchstaber and Taras E. Panov. *Torus actions and their applications in topology and combinatorics*. University Lecture Series, vol. **24**, Amer. Math. Soc., Providence, RI, 2002 (152 pages).
- [2] В. М. Бухштабер, Т. Е. Панов. *Торические действия в топологии и комбинаторике*. Издательство МЦНМО, Москва, 2004 (272 стр.) (in Russian).

СТАТЬИ В РЕЦЕНЗИРУЕМЫХ ЖУРНАЛАХ И ПЕРИОДИЧЕСКИХ ИЗДАНИЯХ

PUBLICATIONS IN REFEREED JOURNALS AND PROCEEDINGS

- [1] Т. Е. Панов. *О структуре 2-алгебры Хопфа в когомологиях четырехмерных многообразий*. Успехи мат. наук **51** (1996), вып. 1, стр. 161–162 (in Russian). English translation: Т. Е. Panov. *On the structure of a Hopf cohomology 2-algebra of four-dimensional manifolds*. Russian Math. Surveys **51** (1996), no. 1, 155–157.
- [2] Т. Е. Панов. *Эллиптический род для многообразий с действием группы \mathbb{Z}/p* . Успехи мат. наук **52** (1997), вып. 2, стр. 181–182 (in Russian). English translation: Т. Е. Panov. *Elliptic genus for manifolds with an action of the group \mathbb{Z}/p* . Russian Math. Surveys **52** (1997), no. 2, 418–419.
- [3] Т. Е. Панов. *Классификация с точностью до кобордизма многообразий, несущих простое действие группы \mathbb{Z}/p* . Мат. заметки **63** (1998), вып. 2, стр. 260–268 (in Russian). English translation: Т. Е. Panov. *Classification up to cobordism of manifolds that carry a simple action of the group \mathbb{Z}/p* . Math. Notes **63** (1998), no. 1–2, 225–232; arXiv:math.AT/9908166.
- [4] Т. Е. Панов. *Вычисление родов Хирцебруха многообразий, несущих действие группы \mathbb{Z}/p через инварианты действия*. Известия РАН, сер. матем. **62** (1998), вып. 3, стр. 87–120 (in Russian). English translation: Т. Е. Panov. *Calculation of Hirzebruch genera of manifolds with \mathbb{Z}/p group action in terms of the invariants of the action*. Izvestiya: Mathematics **62** (1998), no. 3, 515–548; arXiv:math.AT/9909081.
- [5] В. М. Бухштабер, Т. Е. Панов. *Алгебраическая топология многообразий, определяемых простыми многогранниками*, Успехи мат. наук **53** (1998), вып. 3, стр. 195–196 (in Russian). English translation: V. M. Bukhshtaber and T. E. Panov. *Algebraic topology of manifolds defined by simple polyhedra*. Russian Math. Surveys **53** (1998), no. 3, 623–625.
- [6] В. М. Бухштабер, Т. Е. Панов. *Действия тора и комбинаторика многогранников*. Труды Матем. Инст. им. В. А. Стеклова, т. **225** (1999), стр. 96–131 (in Russian). English translation: V. M. Bukhshtaber and T. E. Panov. *Torus actions and the combinatorics of polytopes*. Proc. Steklov Inst. Math., vol. **225** (1999), 87–120; arXiv:math.AT/9909166.
- [7] Т. Е. Панов. *Комбинаторные формулы для χ_y -рода полиориентированного квазиторического многообразия*. Успехи мат. наук **54** (1999), вып. 5, стр. 169–170 (in Russian). English translation: Т. Е. Panov. *Combinatorial formulae for the χ_y -genus of a polyoriented quasitoric manifold*. Russian Math. Surveys **54** (1999), no. 5, 1037–1039.
- [8] В. М. Бухштабер, Т. Е. Панов. *Действия тора, эквивариантные момент-угол-комплексы и конфигурации координатных подпространств*, в сборнике “Теория представлений, динамические системы, комбинаторика, алгоритмические методы”, Записки научных семинаров С.-Петербургского отделения Матем. Инст. им. В. А. Стеклова, т. **266** (2000), стр. 29–50 (in Russian). English translation: V. M. Buchstaber and T. E. Panov, *Torus actions, equivariant moment-angle complexes and coordinate subspace arrangements*. J. Math. Sci. (New York) **113** (2003), no. 4, 558–568; arXiv:math.AT/9912199.
- [9] V. M. Buchstaber and T. E. Panov. *Torus actions determined by simple polytopes*, in: “Geometry and Topology: Aarhus” (K. Grove, I. H. Madsen, and E. K. Pedersen, eds.). Contemp. Math., vol. **258**, Amer. Math. Soc., Providence, RI, 2000, pp. 33–46.
- [10] В. М. Бухштабер, Т. Е. Панов. *Момент-угол комплексы и комбинаторика симплицеальных многообразий*, Успехи мат. наук **55** (2000), вып. 3, стр. 171–172 (in Russian). English translation: V. M. Buchstaber and T. E. Panov. *Moment-angle complexes and combinatorics of simplicial manifolds*. Russian Math. Surveys **55** (2000), no. 3, 576–579.
- [11] В. М. Бухштабер, Т. Е. Панов. *Действия тора, комбинаторная топология и гомологическая алгебра*. Успехи мат. наук **55** (2000), вып. 5, стр. 3–106 (in Russian). English translation: V. M. Buchstaber and T. E. Panov. *Torus actions, combinatorial topology and homology algebra*. Russian Math. Surveys **55** (2000), no. 5, 825–921; arXiv:math.AT/0010073.

- [12] Т. Е. Панов. *О классификации кобордизмов многообразий с \mathbf{Z}/p -действием, множество неподвижных точек которого обладает тривиальным нормальным расслоением*. Труды международной конференции, посвященной 90-летию со дня рождения Л. С. Понтрягина (Москва, 31 авг.–6 сент. 1998 г.), т. 7: “Геометрия и топология”, под ред. С. М. Асеева и С. А. Вахрамеева. ВИНТИ, Москва, 2000, стр. 114–128 (in Russian). English translation: Т. Е. Panov. *On the cobordism classification of manifolds with \mathbf{Z}/p -action whose fixed point set has trivial normal bundle*. J. Math. Sci. (New York) **105** (2001), no. 2, 1876–1883.
- [13] Т. Е. Панов. *Роды Хирцебруха многообразий с действием тора*. Известия РАН, сер. матем. **65** (2001), вып. 3, стр. 123–138 (in Russian). English translation: Т. Е. Panov. *Hirzebruch genera of manifolds with torus actions*. Izv. Math. **65** (2001), no. 3, 543–556; arXiv:math.AT/9910083.
- [14] Taras Panov, Nigel Ray and Rainer Vogt. *Colimits, Stanley–Reiner algebras, and loop spaces*, in: “Categorical Decomposition Techniques in Algebraic Topology (Isle of Skye, 2001)”. Progress in Math., vol. **215**. Birkhäuser, Basel, 2004, pp. 261–291; arXiv:math.AT/0202081.
- [15] И. В. Баскаков, В. М. Бухштабер, Т. Е. Панов. *Алгебры клеточных коцепей и действия торов*, Успехи мат. наук **59** (2004), вып. 3, стр. 159–160 (in Russian). English translation: Ilya V. Baskakov, Victor M. Buchstaber and Taras E. Panov. *Cellular cochain algebras and torus actions*. Russian Math. Surveys **59** (2004), no. 3, 562–563; arXiv:math.AT/0407189.
- [16] В. М. Бухштабер, Т. Е. Панов. *Комбинаторика симплицально клеточных комплексов и торические действия*. Труды Матем. Инст. им. В. А. Стеклова, т. **247** (2004), стр. 41–58 (in Russian). English translation: Victor M. Buchstaber and Taras E. Panov. *Combinatorics of simplicial cell complexes and torus action*. Proc. Steklov Inst. Math., vol. **247** (2004), pp. 33–49.
- [17] Mikiya Masuda and Taras Panov. *On the cohomology of torus manifolds*. Osaka J. Math. **43** (2006), 711–746; arXiv:math.AT/0306100.
- [18] Hiroshi Maeda, Mikiya Masuda and Taras Panov. *Torus graphs and simplicial posets*. Advances in Math. **212** (2007), no. 2, 458–483; arXiv:math.AT/0511582.
- [19] Taras E. Panov. *Topology of Kempf–Ness sets for algebraic torus actions*, in “Proceedings of the Conference ‘Contemporary Geometry and Related Topics’ (Belgrade, 2005)”. N. Bokan *et al*, editors, University of Belgrade, 2007, pp. 409–426.
- [20] Victor M. Buchstaber, Taras E. Panov and Nigel Ray. *Spaces of polytopes and cobordism of quasitoric manifolds*. Moscow Math. J. **7** (2007), no. 2, 219–242; arXiv:math.AT/0609346.
- [21] Taras Panov. *Cohomology of face rings, and torus actions*, in “Surveys in Contemporary Mathematics”. London Math. Soc. Lecture Note Series, vol. **347**, Cambridge, U.K., 2008, pp. 165–201; arXiv:math.AT/0506526.
- [22] М. Масуда, Т. Е. Панов. *Полусвободные действия окружности, башни Ботта и квазиторические многообразия*. Мат. Сборник **199** (2008), вып. 8, 95–122 (in Russian). English translation: Mikiya Masuda and Taras Panov. *Semifree circle actions, Bott towers, and quasitoric manifolds*. Sbornik Math. **199** (2008), no. 7–8, 1201–1223; arXiv:math.AT/0607094.
- [23] Taras Panov and Nigel Ray. *Categorical aspects of toric topology*, in: “Toric Topology” (M. Harada *et al*, eds.). Contemp. Math., vol. **460**, Amer. Math. Soc., Providence, RI, 2008, pp. 293–322; arXiv:0707.0300.
- [24] Т. Е. Панов. *Торические множества типа Кемпфа–Несс*. Труды Матем. Инст. им. В. А. Стеклова, т. **263** (2008), 159–172 (in Russian). English translation: Taras Panov. *Toric Kempf–Ness sets*. Proc. Steklov Inst. Math., vol. **263** (2008), pp. 150–162; arXiv:math.AG/0603556.
- [25] Suyoung Choi, Taras Panov, and Dong Youp Suh. *Toric cohomological rigidity of simple convex polytopes*. Submitted preprint (2008); arXiv:0807.4800.
- [26] Victor M. Buchstaber, Taras E. Panov and Nigel Ray. *Toric genera*. Submitted preprint (2009); arXiv:0908.3298.

ТРУДЫ КОНФЕРЕНЦИЙ / CONFERENCE PROCEEDINGS

- [1] Megumi Harada, Yael Karshon, Mikiya Masuda, and Taras Panov, editors. *Toric Topology. International Conference, May 28–June 3, 2006, Osaka City University, Osaka, Japan*. Contemp. Math., vol. **460**, Amer. Math. Soc., Providence, RI, 2008 (401 pages).

УЧЕБНЫЕ ПОСОБИЯ / TEXTBOOKS

- [1] Сборник задач по аналитической геометрии и линейной алгебре (под ред. Ю. М. Смирнова). Составители: Л. А. Алания, И. А. Дынников, С. М. Гусейн-Заде, В. М. Мануйлов, Д. В. Миллиончиков, А. С. Мищенко, Е. А. Морозова, Т. Е. Панов, М. М. Постников, Е. Г. Скляренко, Е. В. Троицкий. Москва, Изд. физ.-мат. лит., 2000; 2-е изд., Изд. МГУ, 2005 (in Russian).

ДРУГИЕ ПУБЛИКАЦИИ / OTHER PUBLICATIONS

- [1] Victor M. Buchstaber and Taras E. Panov. *Moment-angle complexes and combinatorics of simplicial manifolds*. arXiv:math.AT/0005199.
 [2] Taras Panov. *Stanley-Reisner rings and torus actions*. arXiv:math.AT/0303164.

CONFERENCES PRESENTATIONS (FULL LIST):

9–15 August 1998:

International conference “Geometry and Topology’98”, Aarhus, Denmark (satellite of the ICM’98, Berlin); a paper is published in the Proceedings volume (AMS Contemporary Mathematics series).

30 August–6 September 1998:

International conference dedicated to the 90th Anniversary of L. S. Pontrjagin, Moscow, Russia (satellite of the ICM’98, Berlin); 35-min. talk “Torus actions and the Eilenberg-Moore spectral sequences” and a paper published in the Proceedings volume.

3–8 September 1998:

International conference “Algebraic topology meeting’1998”, Angers, France (satellite of the ICM’98, Berlin); poster.

19–25 August 1999:

International conference “Topology and Dynamics: Rokhlin Memorial”, Vladimir A. Rokhlin’s 80th Anniversary, St. Petersburg, Russia; 25-min talk “Algebraic topology of torus actions on manifolds defined by simple polytopes”.

9–15 October 1999:

International conference “Modern topological methods and their applications”, Tbilisi, Georgia; 45-min talk “On Hirzebruch genera of manifolds with torus actions”.

27 February–4 March 2000:

International meeting “Lattices, Polytopes and Tilings”, Oberwolfach, Germany; 1-hour talk “Torus actions, simple polytopes and coordinate subspace arrangements”.

4–7 July 2000:

International conference “1-st Euro-Mediterranean Topology Meeting”, Barcelona, Spain; poster “Torus actions, simple polytopes and coordinate subspace arrangements”.

10–14 July 2000:

3rd European Congress of Mathematicians, Barcelona, Spain; poster “Torus actions, simple polytopes and coordinate subspace arrangements”.

7–9 April 2001:

16th British Topology Meeting, Edinburgh, U.K.; 40-min invited talk “Combinatorial aspects of torus actions”.

4–8 June 2001:

International conference on Algebraic Topology, Gdansk, Poland; 45-min talk “Cobordism invariants of manifolds with torus actions”.

24–30 June 2001:

International Conference on Algebraic Topology, Isle of Skye, Scotland, U.K.; 30-min talk “Combinatorial aspects of torus actions”.

11 July 2001:

30th Transpennine Topology Triangle Meeting, Sheffield, U.K.; 1 hour talk “Combinatorics, topology and homotopy theory of toric spaces”.

3–7 September 2001:

Algebraic Topology Conference, Nantes, France; 40-min plenary talk “Combinatorics, topology and homotopy theory of toric spaces”.

27–31 May 2002:

Modern Homotopy Theory conference, Lille, France; 40-min talk “Homotopy and homology of certain loop spaces”.

1–6 July 2002:

Algebraic Topology conference, Barcelona, Spain; poster.

25–28 November 2002:

Workshop on Transformation Groups, Tokyo, Japan; 1 hour invited talk “Topology and combinatorics of torus actions”.

8–10 September 2003:

18th British Topology Meeting, Manchester, U.K.; 1 hour invited talk “The cohomology of torus manifolds”.

18–24 April 2004:

International meeting “Cohomological Aspects of Hamiltonian Group Actions and Toric Varieties”, Oberwolfach, Germany; 1 hour invited talk “Rational aspects of toric topology”.

3–6 July 2004:

“Geometry, Topology, and Combinatorics”, a satellite conference of the 4th European Congress of Mathematics, Stockholm, Sweden; 30-min invited talk.

13–18 September 2004:

“Algebraic models of topological spaces and fibrations”, international conference dedicated to the 90th anniversary of George Chogoshvili, Tbilisi, Georgia, 45-min invited talk “Toric topology”.

28 September–3 October 2004:

The XI Congress of Mathematics of Serbia and Montenegro, Petrovac na moru, Crna Gora, 30 min invited talk.

17–19 November 2004:

Symposium on Transformation Groups, Tokyo, Japan; 50 min invited talk.

14–19 February 2005:

International conference “Topology, analysis and applications to mathematical physics” dedicated to the memory of Yu. P. Solov'yov, Moscow, Russia; 30 min talk.

3–9 April 2005:

International conference on Selected Problems of Modern Mathematics Dedicated to the 200th anniversary of K. G. Jacobi, Kaliningrad, Russia; 15 min talk.

26 June–2 July 2005:

International Conference Contemporary Geometry and Related Topics, Belgrade, Serbia and Montenegro; 30 min talk “Spaces of polytopes and cobordisms of toric manifolds”.

11–21 July 2005:

Categories in Algebra, Geometry and Mathematical Physics, Conference in honour of Ross Street's sixtieth birthday, Sydney and Canberra, Australia; 40 min invited talk "Model categories and homotopy colimits in toric topology".

24–26 November 2005:

Symposium on Transformation Groups, Osaka, Japan; 50 min invited talk "Spaces of polytopes, and cobordisms of toric manifolds".

28–30 November 2005:

Workshop on K-Theory and Its Applications, Okayama, Japan; 1 hour invited talk "K-theory and cobordisms of toric manifolds".

22–26 May 2006:

RIMS Conference "Methods of Transformation Group Theory", Kyoto, Japan; 1 hour invited talk "Topology of Kempf-Ness sets for algebraic torus actions".

17–27 July 2007:

Osaka City University Summer School on Symplectic Geometry and Toric Topology; series of lectures "Toric topology and complex cobordism".

17–23 September 2007:

Russian Conference "Mathematics in the Modern World" dedicated to the 50th Anniversary of the Sobolev Institute of Mathematics, Novosibirsk, Russia; 20 min talk "Torus actions and complex cobordisms".

17–22 December 2007:

International Conference "Transformation Groups" dedicated to the 70th Anniversary of the of Ernest B. Vinberg, Moscow, Russia; 30 min talk "Algebraic torus actions, Kempf-Ness sets and real quadrics in C^m ".

3 June 2008:

Conference "Novikov Day" dedicated to the 70th Anniversary of the of Sergei P. Novikov, Steklov Institute, Moscow, Russia; 30 min talk "Torus actions and complex cobordism".

7–11 July 2008:

International Conference "New Horizons in Toric Topology", Manchester, U.K.; 1 hour plenary talk "Moment-angle manifolds: recent developments and perspectives".

4–10 January 2009:

International meeting "Toric Geometry", Oberwolfach, Germany; 50 min invited talk "Toric Kempf-Ness sets".

12–13 January 2009:

Conference "Young Mathematics of Russia", Moscow, Russia; 30 min invited talk "Moment-angle manifolds in toric topology".

25–30 June 2009:

XXXIV Far Eastern Mathematical School and Seminar "Fundamental problems of Mathematics and Information sciences", Khabarovsk, Russia; 30-min invited talk.

6–11 July 2009:

International Conference on Algebraic Topology CAT'09, Warszawa, Poland; plenary talk.

15–20 July 2009:

Dobrushin International Conference, IITP, Moscow, Russia; plenary talk "Toric topology".

7–11 September 2009:

Bratislava Topology Symposium "Group Actions and Homogeneous Spaces", Bratislava, Slovakia; plenary talk "Torus actions and complex cobordism".

10–12 December 2009:

Conference on Transformation Groups, Osaka, Japan; 1 hour invited talk “The universal toric genus”.