



International Open Chinese-Russian conference
**«Torus Actions: Topology,
 Geometry and Number Theory»**

September 02 - 07, 2013
 Khabarovsk, Russia

Timetable

2 September 2013, Monday

8.30 – 9.30	Registration
9.30 – 10.00	Opening ceremony
10.00 – 10.50	Victor Buchstaber “Toric $(2n,k)$ - manifolds”
11.00 – 11.30	<i>Coffee break</i>
11.30 – 12.20	Askold Khovanskii “Universal Grobner basis and toric compactifications”
12.30 – 13.20	Hiroaki Ishida “Complex manifolds with maximal torus actions and several similarities between them and toric varieties”
13.30 – 15.00	<i>Lunch</i>

Section “Toric topology”

15.00 – 15.30	Sintaro Kuroki “A class of torus manifolds which is determined by equivariant cohomology”
15.40 – 16.10	Tatsua Horiguchi “The equivariant cohomology rings of $(n-k,k)$ Springer varieties”
16.10 – 16.40	<i>Coffee break</i>
16.40 – 17.10	Anton Ayzenberg “Topology of links and full subcomplexes in a simplicial complex”

Section “Analysis”

15.00 – 15.30	V. Dubinin “A new version of circular symmetrisation with applications to the geometric function theory”
15.40 – 16.10	Elena Prilepkina “About extremal partions onto digons”
16.10 – 16.40	<i>Coffee break</i>



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3 September 2013, Tuesday

- 9.30 – 10.20 **Haibao Duan** “Parallel tangency for immersions into Euclidean spaces”
 10.30 – 11.00 *Coffee break*
 11.00 – 11.50 **Alexey Ustinov** “Voronoi-Minkowski 3-D continued fractions”
 12.00 – 12.50 **Suyoung Choi** “Classification of torus manifolds and wedge operations”
 13.00 – 14.30 *Lunch*

Section “Toric topology”

- 14.30 – 15.00 **Nikolay Erokhovets** “Buchstaber invariant, 2-surfaces and matroids”
 15.10 – 15.40 **Miho Hatanaka** “Uniqueness of the direct decomposition of toric manifolds”
 15.40 – 16.10 *Coffee break*
 16.10 – 16.40 **Yasuzo Nishimura** “On rational 3-spheres with locally standard $(\mathbb{Z}_2)^3$ -actions”
 16.50 – 17.20 **Ahmet Husainov** “Homotopy colimits of diagrams on generalized tori”

Section “Mixed Mathematics”

- 14.30 – 15.00 **Igor Netay** “Syzygies of quadratic Veronese embeddings”
 15.10 – 15.30 **M. Guzev, A. Dmitriev** “Bifurcations of the critical points for Kolmogorov nonlinear average”
 15.40 – 16.10 *Coffee break*
 16.10 – 16.40 **Gurami Tsitsiashvili** “Asymptotics of connectivity probability of graphs with unreliable edges”
 18.10 – 22.00 *Reception*

4 September 2013, Wednesday

A trip to a tourist centre “Zaimka”.

Approximate schedule:

departure by bus (10:00), football, volleyball, billiards, etc (11:00-13:00), Lunch (13:00-14:00), Russian folk-song group concert (14:00-18:00), 2 boat trips along the Amur river (14:00-16:00 and 16:00-18:00), departure by bus (19:00), arrival to Khabarovsk at 20.00.



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5 September 2013, Thursday

- 9.30 – 10.20 **Dong Youp Suh** “Torus cobordism of lens spaces”
 10.30 – 11.00 *Coffee break*
 11.00 – 11.50 **Taras Panov** “Homotopy theory of moment-angle complexes”
 12.00 – 12.50 **Zhi Lu** “Generalized configuration spaces”
 13.00 – 14.30 *Lunch*

Section “Toric topology”

- 14.30 – 15.00 **Hanchul Park** “Generalized permutohedra, graph invariants, and toric topology”
 15.10 – 15.40 **Seonjeong Park** “Strong cohomological rigidity of toric varieties”
 15.40 – 16.10 *Coffee break*
 16.10 – 16.40 **Ivan Limonchenko** “Cohomology rings of some moment-angle manifolds and their topological invariants”
 16.50 – 17.20 **Li Yu** “On mod-p homology circles”

Section “Number theory”

- 14.30 – 15.00 **Vasilii Bernik** “On the value of resultants of integral polynomials”
 15.10 – 15.40 **Natalia Budarina** “Distance between algebraic conjugate numbers in the clusters”
 15.40 – 16.10 *Coffee break*
 16.10 – 16.40 **Olga Gorkusha** “Metric and arithmetic properties of Ω -fractions”
 16.50 – 17.20 **Elena Netay** “Theta constants and sigma functions”

Section “Optimal control”

- 14.30 – 15.00 **Gyungsoo Woo** “Lagrange multiplier method for solving a convex optimization problem”
 15.10 – 15.40 **Elina Vikhtenko** “Sensitivity functional in conditional optimization problem of mechanics”
 15.40 – 16.10 *Coffee break*
 16.10 – 16.40 **Alexandr Podgaev** “VVP m-control problems for degenerate parabolic equation in non-cylindrical domains or domains with free boundary”
 16.50 – 17.20 **Igor Novitskii** “Integral kernels and continued J-fractions”



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6 September 2013, Friday

- 9.30 – 10.20 **Alexandr Gaifullin** “Coxeter groups, small covers, and realisation of cycles”
 10.30 – 11.00 *Coffee break*
10.40 **Photosession**
 11.00 – 11.50 **Michael Guzev, Evgeniy Skurihin** “Geometric structures associated with biological information matrices”
 12.00 – 12.50 **Andrey Mironov** “Minimal Lagrangian tori in CP^2 ”
 13.00 – 14.30 *Lunch*

Section “Toric topology”

- 14.30 – 15.00 **Yury Ustinovskiy** “Complex geometry of compact manifolds with maximal torus action”
 15.10 – 15.40 **Yi Jiang** “Regular circle actions on 2-connected 7-manifolds”
 15.40 – 16.10 *Coffee break*

Section “Algebra”

- 14.30 – 15.00 **Victor Kazinets** “Multiplication in a symmetrical group defined by genetic code”
 15.10 – 15.40 **Andrey Sukhonos** “The Chu pointed space”
 15.40 – 16.10 *Coffee break*
 16.10 – 16.40 **Gennadiy Alexeev**

Conference proceedings:

To be published in *Far-Eastern Mathematical Journal*
 (translated to English by Springer; in VAK list of journals).

Submit by 30 September 2013 (faster review) or by 31 December 2013.

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