



Conference program

GEOMETRY DAYS — 2022

August 29 - September 2, 2022

GEOMETRY DAYS - 2022

Monday, August 29,
Conference Hall of the Sobolev Institute of Mathematics

14:30–15:20 **Kanel-Belov A. Ya.**, Quantization, polynomial automorphisms, and the Jacobian problem

15:20–16:10 **Buryak A. Yu.**, TBA

Coffee break (20 minutes)

16:30–17:20 **Basalaev A. A.**, BV-algebra of a hypersurface singularity

August 29, Section A,
Conference Hall of the Sobolev Institute of Mathematics

17:30–17:50 **Khromova O. P.**, Ricci flow on three-dimensional metric Lie groups with a semisymmetric connection

17:50–18:10 **Bogdanova R. A.**, On the method of solving one system of functional equations when embedding geometries of two sets

18:10–18:30 **Kyrov V. A.**, Left-invariant metrics of some three-dimensional Lie groups

GEOMETRY DAYS - 2022

August 29, Section B, Room 417

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| 17:30-17:50 | Loginov K. V. , K-stability of Fano varieties |
| 17:50-18:10 | Medvedev V. O. , The Morse index of a minimal surface of higher codimension |
| 18:10-18:30 | Golubyatnikov V. P. , Invariant surfaces and invariant foliations in phase portraits of block-linear dynamical systems |

GEOMETRY DAYS - 2022

Wednesday, August 31,
Conference Hall of the Sobolev Institute of Mathematics

14:30–15:20 **Kaledin D. B.**, Non-commutative crystal cohomology

15:20–16:10 **Alexandrov V. A.**, How to decide whether two convex octahedra are affinely equivalent using their natural developments only

Coffee break (20 minutes)

16:30–17:20 **Vyugin I. V.**, Stepanov's method for subgroups and its applications

August 31, Section A,
Conference Hall of the Sobolev Institute of Mathematics

17:30–17:50 **Dynnikov I. A.**, Rectangular diagrams of surfaces and two-dimensional foliations in the three-sphere

17:50–18:10 **Bychkov B. S.**, Double Hurwitz numbers, maps and topological recursion

18:10–18:30 **Oganesyan V. S.**, Real algebraic varieties and Floer homology

18:30–18:50 **Vikulova A. V.**, Jordan constant for Cremona group of rank 2 over a finite field

GEOMETRY DAYS - 2022

August 31, Section B, Room 417

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| 17:30-17:50 | Polikanova I. V. , Enics are the only curves with affine-congruent arcs |
| 17:50-18:10 | Ovcharenko M. A. , On the classification of smooth weighted Fano complete intersections |
| 18:10-18:30 | Lisenkov D. S. , Vacuum polarization of a quantized scalar field in the thermal state on the short-throat flat-space wormhole background |

GEOMETRY DAYS - 2022

Wednesday, September 1,
Conference Hall of the Sobolev Institute of Mathematics

14:30–15:20 **Osipov D. V.** , Formal Bott-Thurston cocycle and determinantal central extension

15:20–16:10 **Fominykh E. A.**, TBA

Coffee break (20 minutes)

16:30–17:20 **Talalaev D. V.**, Oscillatory matrices and electrical networks

September 1, Section A,
Conference Hall of the Sobolev Institute of Mathematics

17:30-17:50 **Kozlovskaya T. A.**, Group of camomile type and the singular braid group

17:50-18:10 **Agapov S. V.**, On Hopf-type equations arising in the problem of integrable geodesic flows

18:10-18:30 **Golota A. S.**, Hilbert modular foliations and minimal model program

GEOMETRY DAYS - 2022

August 31, Section B, Room 417

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| 17:30-17:50 | Chuesheva N. A. , On one nonlinear equation of the second order |
| 17:50-18:10 | Andreeva T. A. , On conformally killing fields on 2-symmetric lorentzian manifolds |
| 18:10-18:30 | Kazakov A. A. , Electrical networks and the positive part of Lagrangian Grassmannian |

GEOMETRY DAYS - 2022

Memorial Day of Professor Anatol Odziejewicz
(University of Białystok, Poland)

Wednesday, September 1,
Conference Hall of the Sobolev Institute of Mathematics

10:00-10:50 **Tyurin N. A.**, Inversion of operators and Liouville vector field topology

10:50-11:40 **Orlov A. Yu.**, Graphs, matrices and eigenvalue problems

Coffee break (20 minutes)

12:00-12:50 **Sergeev A. G.**, On mathematical aspects of the theory of topological insulators (on-line)

Lunch (90 minutes)

14:30-15:20 **Shafarevich A. I.**, TBA

15:20-16:10 **Przybylska M.**, Non – integrability of relativistic homogeneous potential (on-line)

Coffee break (20 minutes)

16:30-17:20 **Terzić S.**, Orbit space $G_{\{n,2\}}/T^n$ and resolution of its singularities (on-line)

17:20-18:10 **Voronov T.**, Nonlinear homomorphisms of algebras of functions and homotopy Poisson brackets (on-line)