



## Program of the conference “Geometry Days in Novosibirsk – 2024”

Monday, August 26 (conference hall)

14:00-14:50 **Ruan Yongbin.** *Higher genus Gromov-Witten invariants of Calabi-Yau 3-folds.*

Coffee break (30 minutes)

	Section A (conference hall)	Section B (room 305)	Section C (room 417)
15:20-15:40	<b>Miller Alexey.</b> <i>Geometric patterns in Gordian graphs.</i>	Kudryavtseva E. A., <b>Onufrienko Maria.</b> <i>Corank-1 singularities of typical integrable systems on a six-dimensional manifold: classification and structural stability.</i>	<b>Kuzakov Daniil.</b> <i>Dold-Kan correspondence.</i>
15:40-16:00	<b>Aksenova Daria.</b> <i>Automorphisms of monoids of framed string links.</i>	<b>Goncharov Viacheslav.</b> <i>Symplectic embeddings and pseudoholomorphic curves.</i>	<b>Lavrukhin Viktor.</b> <i>The degree of the generalized semicharacteristic.</i>
16:00-16:20	<b>Alekseev Ilya.</b> <i>On adequate knots and the HOMFLY-PT polynomial.</i>	<b>Aivazian Arshak.</b> <i>Scheme smooth geometry.</i>	<b>Akimov Arseny.</b> <i>Regular foliations with non-Hausdorff leaf space.</i>
Break (10 minutes)			
16:30-16:50	<b>Lvov Alexey.</b> <i>Coherent sheaves on maximally singular curves.</i>	<b>Dusman Mikhail.</b> <i>Homotopy properties of matrix algebra bundles.</i>	<b>Tolstukhin Ilya.</b> <i>Algebraic curves and branch point ornaments in the Gaudin model.</i>
16:50-17:10	<b>Guydai-Tyrlov Ivan.</b> <i>Constructions of Nisnevich squares and their applications.</i>	<b>Shchetinin Dmitriy.</b> <i>Calculation of some locally doubly transitive lie groups of transformations.</i>	<b>Rarovskii Anton.</b> <i>Non-invertible quasihomogeneous singularities and their Landau-Ginzburg orbifolds.</i>

Tuesday, August 27 (conference hall)

14:00-14:50 **Duan Huagui.** *On the minimal number of closed geodesics on Finsler spheres.*

Coffee break (30 minutes)

Section A (conference hall)

Section B (room 305)

15:20-15:40 **Akinshin Arseniy.** *Burnside Problem.*

**Chuesheva Nadezhda.** *On several boundary value problems for a nonlinear equation of odd order.*

15:40-16:00 **Beletskiy Anton.** *The Burnside Problem and the Canonical Form.*

**Kornev Evgeniy.** *Subtwistor and Sub-Kähler Structures.*

Break (5 minutes)

16:00-16:20 **Kadirova Makhlye.** *О мере и размерности главных поддуг в иррациональных дендритах.*

**Suvorov Aleksey.** *Maximum partitioning of space by half-planes.*

16:30-16:50 **Yudin Ivan.** *Graph - directed systems, generating self - similar dendrites.*

**Dobritsyn Mikhail.** *Game forms of Ramsey type problems.*

16:50-17:10 **Allabergenova Klara.** *On the components of the set  $O$  in the open set condition.*

Wednesday, August 28 (conference hall)

14:00-14:50 **Tyurin Nikolay.** *On lagrangian geometry of Grassmanian  $Gr(r,n)$ .*

Coffee break (30 minutes)

	Section A (conference hall)	Section B (room 305)
15:20-15:40	<b>Ionin Vasily.</b> <i>Configuration spaces, braids, and homotopy groups.</i>	<b>Alexandrov Victor.</b> <i>A flexible polyhedron without self-intersections in Euclidean 3-space, all of whose dihedral angles change during a flex.</i>
15:40-16:00	<b>Kanel-Belov Alexey.</b> <i>Algorithmic unsolvability of embedding problem of algebraic varieties.</i>	<b>Korobkov Mikhail.</b> <i>On Ladyzhenskaya-Leray's Problem for a Flow of a Viscous Incompressible Fluid in a System of Channels.</i>
16:00-16:20	<b>Vasilkov Artem.</b> <i>Toric models of smooth Fano threefolds.</i>	<b>Zhuikov Konstantin.</b> <i>Index of Differential-Difference Operators on an Infinite Cylinder.</i>
16:20-16:40	<b>Zhakupov Olzhas.</b> <i>On smooth Fano threefolds with coregularity zero.</i>	<b>Kyrov Vladimir.</b> <i>Weingarten equations for surfaces on Helmholtz type groups.</i>

Thursday, August 29 (conference hall)

14:00-14:50 **Sharafutdinov Vladimir.** *Two-dimensional geometric problem of electro-impedance tomography.*

Friday, August 30 (conference hall)

09:30-10:20 **Fan Huijun.** *A slice theorem for the universal curve over Teichmüller space.*

Coffee break (30 minutes)

10:50-11:10 **Vyugin Iliya.** *Markoff equation and recurrence relations over the field of residues modulo a prime.*

11:15-11:35 **Abbas Haidar.** *Index theorem for elliptic operators associated with discrete groups.*

11:40-12:00 **Fominykh Evgeny.** *Minimal ideal triangulations of 3-manifolds.*

12:05-12:25 **Tsarev Sergey.** *Sparse recovery и Compressive sensing в теории и на практике.*

Lunch (95 minutes)

14:00-14:20 **Osipov Denis.** *Analytic diffeomorphisms of the circle and riemann-roch theorem for orientable circle bundles.*

14:25-14:45 **Zheglov Alexandr.** *A new method for explicit parameterization of spectral sheaves on spectral curves.*

14:50-15:10 **Skurikhin Evgeniy.** *Sheaves, Proximity Structures and Cohomological topology of categorical topological spaces.*

Coffee break (25 minutes)

15:35-15:55 **Trepalin Andrey.** *Birational classification of minimal del Pezzo surfaces of degree 4.*

16:00-16:20 **Basalaev Alexey.** *Orbifold Brieskorn lattice.*