

**Program**  
**Conference "Dynamics in Siberia"**



<b>Monday, February 29</b>	
10:00-11:00	Registration (Ground floor of the Sobolev Institute of Mathematics)
<b>Plenary talks (Conference Hall)</b>	
11:00-11:50	D. V. Treschev (Steklov Mathematical Institute of RAS) <i>Periscope theorem.</i>
Coffee break (20 minutes)	
12:10-13:00	A. J. Maciejewski (Institute of Astronomy, University of Zielona Gora, Poland) <i>Integrability of certain restricted systems of material points.</i>
13:10-14:00	M. Bialy (Tel Aviv University) <i>New results on algebraic Birkhoff conjecture for convex billiards.</i>
Lunch (90 minutes)	
<b>Section A (Conference Hall)</b>	
15:30-16:00	E. A. Fominykh (Chelyabinsk State University) <i>On minimal ideal triangulations of cusped hyperbolic manifolds.</i>
Coffee break (30 minutes)	
16.30-17.00	G. D. Solomadin (Steklov Mathematical Institute of RAS) <i>Projective toric generators in the unitary cobordism ring.</i>
17.05-17.35	I. Yu. Limonchenko (Lomonosov Moscow State University) <i>Nonformal moment-angle manifolds of 2-truncated cubes.</i>
<b>Section B (room 417)</b>	
15:30-16:00	S. Konstantinou-Rizos (Chechen State University) <i>Grassmann extensions of Yang-Baxter maps related to NLS type equations.</i>
Coffee break (30 minutes)	
16.30-17.00	Yu. Yu. Bagderina (Institute of Mathematics, Ufa Science center RAS) <i>Criteria of the existence of rational integrals of two-dimensional geodesic flows.</i>
17.05-17.35	E. Yu. Bunkova (Steklov Mathematical Institute of RAS) <i>Universal formal groups whose exponentials are elliptic functions of level <math>n</math>.</i>
17.35-18.05	E. S. Kornev (Kemerovo State University) <i>Subcomplex and subkahler structures.</i>

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<b>Tuesday, March 1</b>	
9:00-09:50	A. V. Malyutin (Steklov Institute of Mathematics, St. Petersburg) <i>Random walks on groups acting on treelike spaces.</i>
10:00-10:50	M. Przybylska (Institute of Physics, University of Zielona Gora, Poland) <i>Integrability of homogeneous Hamiltonian systems in curved spaces.</i>
Coffee break (20 minutes)	
11:10-12:00	A. A. Glutsyuk (CNRS, ENS de Lyon, France; Higher School of Economics) <i>On periodic orbits in complex planar billiards.</i>
12:10-13:00	T. E. Panov (Lomonosov Moscow State University) <i>Geometric structures on moment-angle manifolds.</i>
Lunch (85 minutes)	
<b>Section A (Conference Hall)</b>	
14:25-14:55	A. V. Belyaev (Novosibirsk State University) <i>On the representation of solutions of the problem of a heavy rigid body's movement in the Kovalevskaya case by <math>\zeta</math> and <math>\wp</math>-Weierstrass functions.</i>
15.00-15.30	Y. V. Brezhnev (Tomsk State University) <i>Analytic connections on Riemann surfaces.</i>
Coffee break (30 minutes)	
16.00-16.30	A. Y. Anikin (Ishlinsky Institute for Problems in Mechanics of RAS) <i>Non-commutative normal forms and inverse spectral problems.</i>
16.35-17.05	A. V. Tetenov (Novosibirsk State University) <i>On isomorphisms of self-similar sets, which do not satisfy Weak Separation Property.</i>
17.05-17.35	N. V. Abrosimov (Sobolev Institute of Mathematics) <i>On fullerene <math>C_{60}</math> and other convex polyhedrons with symmetries in spaces of constant curvature.</i>
<b>Section B (room 417)</b>	
14:25-14:55	V. P. Golubyatnikov (Sobolev Institute of Mathematics) <i>On discrete structures in phase portraits of some non-linear dynamical systems.</i>
15.00-15.30	Yu. E. Anikonov (Sobolev Institute of Mathematics) <i>On identification problems with varying parameter.</i>
Coffee break (30 minutes)	
16.00-16.30	V. V. Chueshev (Kemerovo State University) <i>Vector bundle of abelian differentials over Teichmuller spaces of surfaces with punctures.</i>
16.35-17.05	M. V. Neshchadim (Sobolev Institute of Mathematics) <i>Functionally invariant solutions of the Maxwell equation.</i>
17.05-17.35	G. A. Chumakov (Sobolev Institute of Mathematics) <i>Complexity in a kinetic model of heterogeneous catalytic reaction with an hierarchy of characteristic times.</i>
<b>Conference Dinner 18.30</b>	

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<b>Wednesday, March 2</b>	
<b>Plenary talks (Conference Hall)</b>	
9:00-9:50	O. K. Sheinman (Steklov Mathematical Institute of RAS) <i>Lax operator algebras and related structures.</i>
<b>Coffee break and Poster Session (50 minutes)</b>	
10:40-11:30	S. P. Tsarev (Siberian Federal University) <i>Geodesic flows with polynomial and non-polynomial integrals.</i>
11:40-12:30	A. A. Gaifullin (Steklov Mathematical Institute of RAS) <i>On the bellows conjecture in spaces of constant curvature.</i>
<b>Cultural program</b>	

**Poster session**

S. V. Agapov (Sobolev Institute of Mathematics)	<i>On integrability of the magnetic geodesic flows on a 2-torus.</i>
K. G. Kamalutdinov (Novosibirsk State University)	<i>Theorem on general position for a pair of fractal curves.</i>
O. P. Khromova (Altai State University)	<i>On the spectrum of the one-dimensional curvature operator of non-reductive homogeneous pseudo-Riemannian 4-manifolds.</i>
S. V. Klepikova (Altai State University)	<i>On the prescribed values of the spectrum of sectional curvature operator of locally homogeneous Lorentzian 3-manifolds</i>
E. S. Kudina (Gorno-Altaysk State University)	<i>On non-euclidean version of Steiner theorem.</i>
G. S. Mauleshova (Sobolev Institute of Mathematics)	<i>On commuting difference operators of rank one.</i>
B. T. Saparbayeva (Sobolev Institute of Mathematics)	<i>Krichever — Novikov's operators with polynomial coefficients.</i>
D. Yu. Sokolova (Novosibirsk State University)	<i>On euclidean structure on figure-eight knot with a bridge.</i>

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<b>Thursday, March 3</b>	
<b>Plenary talks (Conference Hall)</b>	
9:00-9:30	M. V. Pavlov (Novosibirsk State University) <i>The Manin reduction and the Calogero Gold Fish.</i>
9:40-10:30	A. A. Shananin (Moscow Institute of Physics and Technology) <i>Inverse problems in the problem of measurement in economics.</i>
Coffee break (30 minutes)	
11:00-11:50	V. Yu. Novokshenov (Institute of Mathematics, Ufa Science center RAS) <i>Orthogonal polynomials and Painleve' equations.</i>
12:00-12:50	A. I. Shafarevich (Lomonosov Moscow State University) <i>Lagrangian manifolds, classical Hamiltonian systems and Maslov indices corresponding to the spectral series of the Schroedinger operators with delta-potentials.</i>
<b>Cultural program</b>	

<b>Friday, March 4</b>	
<b>Plenary talks (Conference Hall)</b>	
9:00-9:50	S. Yu. Dobrokhotov (Ishlinsky Institute for Problems in Mechanics of RAS) <i>Librations, instantons, tunneling and low bands of 2-D Schrödinger operator for quantum dimers.</i>
Coffee break (20 minutes)	
10:10-11:00	Yu. A. Kordyukov (Institute of Mathematics, Ufa Science Center RAS) <i>Semiclassical spectral analysis for magnetic Schroedinger operators.</i>
11:10-12:00	V. E. Nazaikinskii (Ishlinsky Institute for Problems in Mechanics of RAS) <i>On the run-up of long waves generated by a localized source on a shallow beach.</i>
<b>Cultural program</b>	