



# Program

## Conference "Dynamics in Siberia"

Monday, February 25			
9:00-10:00	Registration (Ground floor of the Sobolev Institute of Mathematics)		
<b>Plenary talks (Conference Hall)</b>			
10:00-10:50	<i><b>Kozlov V.V.</b> Tensor invariants and integration of differential equations.</i>		
10:50-11:40	<i><b>Rademacher H.-B.</b> On the number of closed geodesics</i>		
Coffee break (20 minutes)			
12:00-12:50	<i><b>Trakhinin Yu. L.</b> On local existence and violent instabilities of a plasma-vacuum interface.</i>		
Lunch (100 minutes)			
Section A (Conference Hall)		Section B (room 417)	
14:30-15:00	<i><b>Sheinman O.K.</b> Spectral curves and separation of variables for hyperelliptic Hitchin systems of types <math>A_n</math>, <math>B_n</math>, <math>C_n</math>.</i>	14:30-15:00	<i><b>Gurevich E.Ya.</b> On topological classification of Morse-Smale cascades by means of combinatorial invariants.</i>
15:00-15:30	<i><b>Borisova P.</b> Separation of variables for type <math>D_n</math> Hitchin systems on hyperelliptic curves.</i>	15:00-15:20	<i><b>Kurenkov E. D.</b> On one-dimensional basic sets of endomorphisms of 2-torus.</i>
Coffee break			
15:50-16:20	<i><b>Gontsov R. R.</b> Solving triangular Schlesinger systems via periods of meromorphic differentials.</i>	15:50-16:10	<i><b>Kruglov V. E.</b> Topological conjugacy of gradient-like flows on the <math>n</math>-sphere.</i>
16:20-16:50	<i><b>Goryuchkina I. V.</b> On the convergence of various formal series solutions of algebraic ODEs.</i>	16:10-16:30	<i><b>Nozdrinova E. V.</b> On a simple isotopy class of gradient-like diffeomorphisms on a two-dimensional sphere.</i>
		16:30-16:50	<i><b>Barinova M. K.</b> On existing of energy function for 3-diffeomorphisms with one-dimentional surface attractor and repeller.</i>



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Tuesday, February 26		
10:00-10:30	<i>Dobrogowska A. Tangent lifts of bi-Hamiltonian structures.</i>	
10:30-11:00	<i>Guzev M. A. Stability of rolling particles between elastic plates.</i>	
11:00-11:50	<i>Glutsyuk A. A. On polynomially integrable billiards on surfaces of constant curvature.</i>	
Coffee break (20 minutes)		
12:10-13:00	<i>Plakhov A. Yu. New results in Newton's problem of minimal resistance</i>	
	Section A (Conference Hall)	Section B (room 417)
13:05-13:35	<i>Tyurin N.A. On a complexification of the moduli space of Bohr - Sommerfeld lagrangian cycles.</i>	<i>Pavlov M.V. A new class of exact solutions for three-dimensional quasilinear systems of first order.</i>
13:35-14:05	<i>Shramov C. A. Automorphism groups of Hopf and Kodaira surfaces.</i>	<i>Sharygin G. I. Deformation quantization of commutative families.</i>
Cultural program		

Wednesday, February 27		
09:30-10:20	<i>Chupahin A. P. Ovsyannikov vortex: exact solution of classical and relativistic hydrodynamic equations.</i>	
10:20-11:10	<i>Nazaikinskii V. E. Billiards with semi-rigid walls, asymptotic eigenfunctions of the 2D operator <math>\nabla D(x)\nabla</math>, and trapped coastal waves.</i>	
Coffee break (20 minutes)		
11:30-12:00	<i>Orlov A. Yu. Hurwitz numbers and matrix integrals labeled with chord diagrams.</i>	
Cultural program		
<b>Conference dinner (19:00)</b>		



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Thursday, February 28	
10:00-10:50	<i>Gaifullin A. A. On homology of Johnson kernel.</i>
10:50-11:40	<i>Buryak A. Yu. Simple Lax description of the ILW hierarchy.</i>
Coffee break (20 minutes)	
12:00-12:50	<i>Grines V. Z. On the topology of manifolds admitting cascades attractor - repeller of the same dimension.</i>
12:50-13:40	<i>Pochinka O. V. Topological objects in invariant sets of dynamical systems.</i>
Cultural program	

Friday, March 1							
09:30-10:20	<i>Treschev D. V. On a quantum heavy particle.</i>						
10:20-11:10	<i>Kordyukov Yu. A. Trace formula for the magnetic Laplacian.</i>						
Coffee break (20 minutes)							
11:30-12:00	<i>Krasil'shchik I. S. 2D-reductions of the Mikhalev-Pavlov equation and their nonlocal symmetries.</i>						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f2f2f2;"> <th style="width: 50%; text-align: center;">Section A (Conference Hall)</th> <th style="width: 50%; text-align: center;">Section B (room 417)</th> </tr> </thead> <tbody> <tr> <td>12:05-12:35</td> <td><i>Zubov D. I. Rate of equidistribution for the unstable manifolds of Anosov diffeomorphisms.</i></td> </tr> <tr> <td>12:35-13:05</td> <td><i>Vyugin I. V. Vector bundles and difference equations in a complex domain.</i></td> </tr> </tbody> </table>	Section A (Conference Hall)	Section B (room 417)	12:05-12:35	<i>Zubov D. I. Rate of equidistribution for the unstable manifolds of Anosov diffeomorphisms.</i>	12:35-13:05	<i>Vyugin I. V. Vector bundles and difference equations in a complex domain.</i>
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Saturday, March 2	
10:00-10:50	<i>Akhmet'ev P. M. Invariants of knots in geodesic flows.</i>
10:50-11:40	<i>Timorin V. A. Invariant spanning trees for quadratic rational maps.</i>
Cultural program	