

Program

Conference "Dynamics in Siberia"



Monday, February 24	
9:00-09:30	Registration (Ground floor of the House of Scientists SB RAS)
Plenary talks (Small Hall of the House of Scientists)	
09:30-09:40	Opening.
09:40-10:20	V. Kozlov. Квадратичные законы сохранения уравнений математической физики.
10:25-11:05	A. Sorrentino. Inverse problems and rigidity questions in Billiard Dynamics.
Coffee break (20 minutes)	
11:25-12:05	V. Dragovic. Integrable Billiards in the Minkowski plane and space.
12:10-12:50	A. Chupakhin. On the energy of a hydroelastic system.
Lunch (100 minutes)	
	Section A (Conference Hall of the Sobolev Institute of Mathematics)
14:30-14:50	M. Guzev. Inhomogeneous distribution of characteristics in ideal crystal.
14:50-15:10	S. Medvedev. Linear systems with quadratic integrals.
	Section B (417, Sobolev Institute of Mathematics)
	P. Akhmet'ev. Invariants of winding-numbers in dynamics of flux lines and its visualization.
	N. Daurtseva. Almost Hermitian structures of cohomogeneity 1 on the round sphere S^6 .
Coffee break (20 minutes)	
15:30-15:50	V. Grebenev. Conformal invariance of the zero-vorticity lagrangian path in 2d turbulence.
15:50-16:10	S. Konstantinou-Rizos. On the 3D consistency of Grassmann extended lattice systems.
16:10-16:30	I. Marshall. Action-Angle Duality for a Poisson-Lie Deformation of the Trigonometric BC _n Sutherland System.
16:30-16:50	M. Shishlenin. 3D analogs of Gelfand-Levitan equation and digital oilfield.
	C. Fierobe. On analytic projective billiards with open sets of triangular orbits.
	S. Sokolov. Dynamics of vortex filaments in a fluid bounded by a circular cylinder.
	V. Sharafutdinov. Rank 3 Killing tensor fields on a Riemannian 2-torus.
	A. Tetenov. Self-similar sets with finite intersection property.

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Tuesday, February 25	
Plenary talks (Conference Hall of the Sobolev Institute of Mathematics)	
09:00-09:40	D. Treschev. <i>On inclusion of a diffeomorphism into a flow.</i>
09:45-10:25	S. Maksymenko. <i>Homotopy types of groups of foliated diffeomorphisms for Morse-Bott foliations.</i>
Coffee break (20 minutes)	
10:45-11:25	A. Sliżewska. <i>A family of integrable perturbed Kepler systems.</i>
11:30-12:00	L. Shalom. <i>Non-ordinary Gutkin billiards.</i>
Lunch (120 minutes)	
	Section A (115, Sobolev Institute of Mathematics)
14:00-14:20	D. Millionshchikov. <i>Characteristic Lie algebras of hyperbolic systems.</i>
14:20-14:40	E. Nozdrinova. <i>Solution of the 33rd Palis-Pugh problem for gradient-like diffeomorphisms of a two-dimensional sphere.</i>
14:40-15:00	A. Morozov. <i>Conjugacy of orientation preserving Morse-Smale diffeomorphisms graphs.</i>
Section B (417, Sobolev Institute of Mathematics)	
	A. Zheglov. Пары Лакса для линейных гамильтоновых систем.
	A. Orlov. Как интегралы по матрицам перечисляют накрытия римановых и клейновых поверхностей.
	D. Osipov. Discrete Heisenberg groups, algebraic surfaces and theta functions.
Coffee break (20 minutes, 213 IM SB RAS)	
15:20-15:40	V. Shmukler. <i>О трехмерных диффеоморфизмах Морса-Смейла с единственной некомпактной гетероклинической кривой.</i>
15:40-16:00	D. Shubin. <i>On 4-dimensional flows with wildly embedded invariant manifolds of a periodic orbit.</i>
16:00-16:20	N. Yakushkin. <i>Условия бифуркаций Тьюринга и Андronова-Хопфа для одномерной системы типа «реакция – диффузия» с кубической нелинейностью.</i>
	V. Przyjalkowski. Зеркальная симметрия и структуры Ходжа.
	C. Shramov. Automorphisms of elliptic surfaces.
	N. Tyurin. Примеры лагранжевых торов в грассманнах $Gr(1, n)$.



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Wednesday, February 26 (Conference Hall of the Sobolev Institute of Mathematics)	
9:00-09:40	S. Bolotin. <i>Динамика быстро-медленных гамильтоновых систем около гомоклинического множества.</i>
09:45-10:25	M. Hounkonnou. <i>Geometry and probability on the noncommutative 2-torus in a magnetic field.</i>
Coffee break and poster session (30 minutes)	
10:55-11:35	O. Pochinka. <i>On paths connecting polar diffeomorphisms.</i>
11:40-12:20	A. Borisov. <i>Об одной неголономной системе, близкой к шару Чаплыгина.</i>
12:25-13:05	A. Tsiganov. <i>On rigid body dynamics in a magnetic field.</i>
Cultural program	

Poster Session:

1. T. Alexeeva. *Forecasting Limiting Dynamics in the Shapovalov Model of a Mid-Size Firm.*
2. D. Drozdov. *On the connected components of fractal cubes.*
3. J. Soninbayar. *Обтекание препятствий потоком тяжелой несжимаемой жидкости.*
4. A. Tovsultanov. *О задаче Дирихле для эллиптического функционально-дифференциального уравнения с аффинным преобразованием аргумента.*

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Thursday, February 27 (Conference Hall of the Sobolev Institute of Mathematics)

9:00-09:40	S. Kabanikhin. <i>Inverse problems for mathematical models in epidemiology.</i>
09:45-10:25	N. Kuznetsov. <i>Theory of hidden oscillations and stability of control systems.</i>
Coffee break (20 minutes)	
10:45-11:25	S. Dobrokhotov. <i>Новые интегральные представления канонического оператора Маслова и эффективные асимптотики в виде специальных функций.</i>
11:30-12:10	S. Tikhomirov. <i>Various parabolic equations with hysteresis.</i>
Cultural program	

Friday, February 28 (Conference Hall of the Sobolev Institute of Mathematics)

9:00-09:40	V. Nazaikinskii. <i>Uniformization and semiclassical asymptotics for equations with Bessel-type degeneration on the boundary.</i>
09:45-10:25	Yu. Kordyukov. <i>Quasiclassical approximation for magnetic monopoles.</i>
Coffee break (20 minutes)	
10:45-11:25	V. Vedyushkina. <i>Liouville foliation of integrable billiards on cell complexes.</i>
11:30-12:10	V. Grines. <i>Геодезические ламинации и хаотическая динамика на поверхностях.</i>
12:15-12:55	A. Plakhov. <i>New results in Newton's aerodynamic problem for convex bodies.</i>
Cultural program	

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Saturday, February 29 (Conference Hall of the Sobolev Institute of Mathematics)

9:30-10:10	A. Shafarevich. <i>Lagrangian Tori and Quantization Conditions Corresponding to Spectral Series of the Laplace Operator on a Surface of Revolution with Conical Points.</i>
10:15-10:55	A. Gaifullin. <i>Redistribution of the combinatorial curvature and local combinatorial formula for the first Pontryagin class.</i>
Coffee break (20 minutes)	
11:15-11:55	V. Timorin. <i>Combinatorial models for spaces of dendritic polynomials.</i>
12:00-12:40	Yu. Trakhinin. <i>Structural stability of shock waves and current-vortex sheets in the solar tachocline.</i>
Cultural program	