

Program

Conference "Dynamics in Siberia"



Monday, February 27			
9:00-10:00	Registration (Ground floor of the Sobolev Institute of Mathematics)		
Plenary talks (Conference Hall)			
10:00-10:50	D. Treschev. <i>Arnold diffusion in a priori unstable case.</i>		
10:50-11:40	J. Zhou. <i>Poisson structures in theories of modular forms, elliptic functions, and invariant theory.</i>		
Coffee break (20 minutes)			
12:00-12:50	Y. Zhang. <i>Bihamiltonian integrable hierarchies and their tau structures.</i>		
12:50-13:40	O. Pochinka. <i>On Morse-Smale systems on manifolds.</i>		
Lunch (80 minutes)			
	Section A (Conference Hall)	Section B (room 417)	Section C (room 220)
15:00-15:30	A. Malyutin. <i>Absolute boundary of discrete Heisenberg group.</i>	O. Sheinman. <i>Almost graded current algebras on the symmetric square of a curve.</i>	O. Kiselev. <i>Capture in a parametric autoresonance in a nonlinear oscillator.</i>
15:30-16:00	A. Zheglov. <i>Cohen-Macaulay modules over dihedral quasi-invariants and Calogero-Moser systems.</i>	E. Gurevich. <i>On embedding of Morse-Smale diffeomorphisms in topological flows.</i>	A. Anikin. <i>Semi-classical asymptotics for operator pencil with applications to plasma physics.</i>
Coffee break (30 minutes)			
16:30-17:00	E. Bunkova. <i>Classification of Abelian function solutions of Hirzebruch functional equations.</i>	O. Kaptsov. <i>Characteristic invariants of hyperbolic systems.</i>	Yu. Kordyukov. <i>Lefschetz trace formulas for flows on foliated manifolds.</i>
17:00-17:30	D. Millionschikov. <i>Naturally graded Lie algebras and left-invariant geometric structures on nilmanifolds.</i>	V. Gaiko. <i>Towards global bifurcation theory of polynomial dynamical systems</i>	D. Egorov. <i>The Riemann-Roch theorem for the Dynnikov-Novikov discrete complex analysis</i>

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Tuesday, February 28			
9:00-9:50	T. Shiota. <i>Finite dimensional orbits of soliton equations.</i>		
9:50-10:40	S. Dobrokhotov. <i>Punctured Lagrangian Manifolds and the Propagation of the Leading Edge Front for Linear Equations of the Water Waves and Crystal Lattice.</i>		
Coffee break (20 minutes)			
11:00-11:50	S. Liu. <i>Matrix Integral, Hodge Integral, and Integrable system.</i>		
11:50-12:40	R. Vitolo. <i>Geometry of third-order homogeneous Hamiltonian operators and integrable systems.</i>		
12:40-13:30	V. Roubtsov. <i>Painleve monodromy varieties: geometry and quantisation.</i>		
Lunch (90 minutes)			
	Section A (Confernce Hall)	Section B (room 417)	Section C (room 220)
15:00-15:30	E. Fominykh. <i>Platonic complexities of hyperbolic 3-manifolds.</i>	S. Konstantinou-Rizos. <i>Lifts to noncommutative extensions of Yang-Baxter maps.</i>	J.-H. Chang. <i>Multi-Kinks Solitons In the Modified KP-(II) Equation.</i>
15:30-16:00	Yu. Brezhnev. <i>Some remarks on quantum logic and a Hilbert space axiom in the orthodox quantum mechanics.</i>	M. Babich. <i>On coadjoint orbits of classical groups.</i>	V. Oganesyanyan. <i>Matrix commuting differential operators of rank 2 and an arbitrary genus.</i>
Coffee break (30 minutes)			
16:30-17:00	K. Shramov. <i>Birational automorphisms.</i>	G. Sharygin. <i>Deformation quantization and the action of Poisson vector fields.</i>	M. Pavlov. <i>New Integrable Dispersive Chains.</i>
17:00-17:30	T. Kozlovskaya. <i>Cyclic branched coverings of connected sums of lens spaces.</i>	V. Golubyatnikov. <i>On existence of a stable cycle in one asymmetric dynamical system.</i>	N. Pavlenko. <i>On Hamiltonian geometry of associativity equations.</i>
17:30-18:00	E. Kornev. <i>Subkahler structures and kahler submanifolds.</i>	A. Belyaev. <i>On the entire and finite valued solutions of the three-body problem.</i>	E. Glukhov. <i>On Algebro-Geometric Approach to Diagonal Semi-Hamiltonian Systems of Hydrodynamic Type.</i>
18:00-18:30	N. Daurtseva. <i>Compatibility of different classes of almost Hermitian 6-manifolds.</i>		Z. Makridin. <i>Multi-dimensional conservation laws and integrable systems.</i>

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Wednesday, March 1	
9:00-9:50	V. Nazaikinskii. <i>Lagrangian manifolds associated with some problems in abstract analytic number theory.</i>
9:50-10:40	H. Ma. <i>Uniqueness of closed self-similar solutions to σ_k^α-curvature flow.</i>
Coffee break (20 minutes)	
11:00-11:50	D. Zuo. <i>Extended affine Weyl groups of BCD type, Frobenius manifolds and their Landau-Ginzburg superpotentials.</i>
11:50-12:40	A. Gaifullin. <i>Flexible polyhedra and their configuration spaces.</i>
Cultural program	

Thursday, March 2	
10:00-10:50	S. Bolotin. <i>Singularities of the potential and integrability in Hamiltonian systems with two degrees of freedom.</i>
10:50-11:40	A. Tsiganov. <i>Backlund transformations and new bi-Hamiltonian systems on the plane, sphere and ellipsoid.</i>
Coffee break (20 minutes)	
12:00-12:50	A. Chupakhin. <i>The abnormalities of a human brain vasculature as the singularities of a haemodynamics mathematical model.</i>
Cultural program	
Conference Dinner 19.00	

Friday, March 3	
10:00-10:50	A. Shafarevich. <i>Laplace operator and a wave equation on polyhedrons.</i>
10:50-11:40	U. Semmelmann. <i>Killing tensors on Riemannian manifolds.</i>
Coffee break (20 minutes)	
Cultural program	