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. *Arnold diffusion in a priori unstable case.*	
10:50-11:40	J. Zhou. *Poisson structures in theories of modular forms, elliptic functions, and invariant theory.*	
Coffee break (20 minutes)		
12:00-12:50	Y. Zhang. *Bihamiltonian integrable hierarchies and their tau structures.*	
12:50-13:40	O. Pochinka. *On Morse-Smale systems on manifolds.*	
Lunch (80 minutes)		
	Section A (Confernce Hall)	Section B (room 417)	Section C (room 220)
15:00-15:30	A. Malyutin. *Absolute boundary of discrete Heisenberg group.*	O. Sheinman. *Almost graded current algebras on the symmetric square of a curve.*	O. Kiselev. *Capture in a parametric autoresonance in a nonlinear oscillator.*
15:30-16:00	A. Zheglov. *Cohen-Macaulay modules over dihedral quasi-invariants and Calogero-Mos systems.*	E. Gurevich. *On embedding of Morse-Smale diffeomorphisms in topological flows.*	A. Anikin. *Semi-classical asymptotics for operator pencil with applications to plasma physics.*
Coffee break (30 minutes)		
16:30-17:00	E. Bunkova. *Differentiation of Hyperelliptic Functions: Genus 3 Case.*	O. Kaptsov. *Characteristic invariants of hyperbolic systems.*	Yu. Kordyukov. *Lefschetz trace formulas for flows on foliated manifolds.*
17:00-17:30	D. Millionschikov. *Naturally graded Lie algebras and left-invariant geometric structures on nilmanifolds.*	V. Gaiko. *Towards global bifurcation theory of polynomial dynamical systems.*	D. Egorov. *The Riemann-Roch theorem for the Dynnikov-Novikov discrete complex analysis.*

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

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Wednesday, March 1	
9:00-9:50	V. Nazaikinskii. *Lagrangian manifolds associated with some problems in abstract analytic number theory.*
9:50-10:40	H. Ma. *Uniqueness of closed self-similar solutions to σ_k^{α}-curvature flow.*
Coffee break (20 minutes)	
11:00-11:50	D. Zuo. *Extended affine Weyl groups of BCD type, Frobenius manifolds and their Landau-Ginzburg superpotentials.*
11:50-12:40	A. Gaifullin. *On the analytic continuation of the volume of a non-Euclidean simplex.*
Cultural program	

Thursday, March 2	
10:00-10:50	V. Kozlov *Polynomial conservation laws for the Lorentz gas and the Boltzmann–Gibbs gas.*
10:50-11:40	A. Tsiganov. *Backlund transformations and new bi-Hamiltonian systems on the plane, sphere and ellipsoid.*
Coffee break (20 minutes)	
12:00-12:50	A. Chupakhin. *The abnormalities of a human brain vasculature as the singularities of a haemodynamics mathematical model.*
Cultural program	
Conference Dinner 19.00	

Friday, March 3	
10:00-10:50	A. Shafarevich. *Laplace operator and a wave equation on polyhedrons.*
10:50-11:40	U. Semmelmann. *Killing tensors on Riemannian manifolds.*
Coffee break (20 minutes)	
12:00-12:50	S. Tikhomirov. *Dynamics in systems with hysteresis.*
Cultural program	