

Section talks (Monday, February 27)

	Section «Applied Mathematics» <i>(303, Sobolev Institute of Mathematics)</i>	Section «A» <i>(Conference Hall, Sobolev Institute of Mathematics)</i>	Section «Partial differential equations» <i>(417, Sobolev Institute of Mathematics)</i>	Section «B» <i>(213, Sobolev Institute of Mathematics)</i>
14:30-15:00	V. Sadovskii. <i>Application of variational inequalities for modeling wave motions of elastic-plastic, granular and porous media.</i>	S. Gorchinskyi. <i>Two-dimensional height pairing.</i>	E. Panov. <i>On variational formulation of self-similar entropy solutions to a scalar conservation law.</i>	S. Konstantinou-Rizos. <i>N-simplex maps and Lax representations on groups.</i>
15:05-15:35	E. Ermanyuk. <i>Nonlinear dynamics of inertial wave attractors.</i>	V. Przyjalkowski. <i>Singular Landau-Ginzburg models.</i>	D. Tkachev. <i>Stability of a resting state for the flows of polymeric fluid in an infinite plane channel.</i>	M. Pavlov. <i>Nondiagonalizable hydrodynamic type systems integrable by a generalised hodograph method.</i>
15:40-16:10	S. Medvedev. <i>Direct numerical methods for the Gelfand-Levitan-Marchenko equation.</i>	F. Popelenskiy. <i>Weighted combinatorial Ricci and Yamabe flows on surfaces.</i>	V. Shelukhin. <i>Dynamics of suspensions: thermodynamics and micro-structure.</i>	V. Kibkalo. <i>Algorithmic problems in billiard book classification.</i>
16:15-16:45	M. Shishlenin. <i>Electroacoustic tomography: theory, numerical methods and machine learning.</i>	Yu. Kordyukov. <i>Zeta invariants of Morse forms.</i>	A. Zvyagin. <i>Solvability of one type viscoelastic fluid with memory.</i>	D. Shubin. <i>Non-singular Morse-Smale Flows on Orientable 3-manifolds with One Twisted Saddle Orbit: Topology of Ambient Manifolds.</i>
Coffee break (20 minutes, room 303)				
17:05-17:30	V. Shepelev. <i>Numerical Simulation of Laser-Induced Shock Wave Processes in Metal.</i>	A. Orlov. <i>Gluing polygons and commuting differential operators of many variables.</i>	D. Prokudin. <i>Solubility of unsteady equations of the three-dimensional motion of two-component viscous compressible heat-conducting fluids.</i>	V. Kruglov. <i>Distinguishing the isomorphisms of topological invariants for gradient-like flows on surfaces.</i>
17:35-18:00	A. Doludenko. <i>Numerical investigation of fluid flow in a closed space for the Newtonian and non-Newtonian media.</i>	A. Vikulova. <i>Finite subgroups of birational automorphism group of Severi-Brauer surfaces.</i>	V. Starovoitov. <i>Nonlocal parabolic problem describing the chaotic dynamics of a polymer molecule.</i>	I. Saraev. <i>On decomposition of a gradient-like flow dynamics as a sum of dynamics on the simplest components of the ambient manifold.</i>
18:05-18:30	A. Aksenov. <i>Software Package FlowVision: Interdisciplinary Numerical Modeling for Mechanical Engineering Problems.</i>	A. Golota. <i>Finite groups of automorphisms of compact complex parallelizable manifolds.</i>	S. Sazhenkov. <i>The impulsive pseudoparabolic equation in the multidimensional case.</i>	V. Galkin. <i>Spherical scheme of gradient-like flows.</i>
18:35-19:00	M. Gomoyunov. <i>Path-dependent Hamilton - Jacobi equations in optimal control problems for fractional-order systems and their generalized solutions.</i>	M. Ovcharenko. <i>Dolgachev-Nikulin duality for fibers of toric Landau-Ginzburg models of smooth Fano 3-folds.</i>	R. Semenko. <i>Stabilization of the flat Poiseuille-type flow for viscoelastic polymeric liquid.</i>	

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14:30-15:00	K. Sabelfeld. <i>Stochastic dynamics in applications to the numerical solution of boundary value problems of mathematical physics.</i>	S. Sokolov. <i>Atlas of Bifurcation Diagrams of a Lagrange Top with a Vibrating Suspension Point.</i>	L. Lerman. <i>Non-autonomous gradient-like vector fields on closed manifolds.</i>	D. Millionshchikov. <i>Integrable left invariant complex structures on nilmanifolds.</i>
15:05-15:35	D. Sidorov. <i>Integral Dynamical Models: Theory and Applications.</i>	S. Agapov. <i>Non-polynomial integrals of certain Hamiltonian systems.</i>	E. Gurevich. <i>On embedding of Morse-Smale diffeomorphisms in topological flows.</i>	C. Shramov. <i>Birational geometry of del Pezzo surfaces.</i>
15:40-16:10	B. Semisalov. <i>Direct and inverse turbulent cascades for Gross-Pitaevskii system.</i>	S. Pustovoitov. <i>Structure of semilocal singularities of an elliptic billiard in a polynomial potential field.</i>	E. Volokitin. <i>Periodic solutions of Darboux differential systems.</i>	I. Vyugin. <i>Isomonodromic deformations on an elliptic curve.</i>
Coffee break (20 minutes, room 303)				
16:30-17:00	E. Rudoy. <i>Homogenization of a thermoelastic composite material.</i>	V. Zavyalov. <i>Circular billiards with slipping at any rational angle.</i>	Z. Makridin. <i>Forced internal wave attractors: Linear inviscid theory.</i>	G. Sharygin. <i>Quasiderivations and commutative subalgebras of the algebra Ugl_n.</i>
17:05-17:35	V. Garanzha. <i>Stiffening algorithm for least distortion deformations and equidistribution principle.</i>	K. Afonin. <i>Entropy of a Unitary Operator on the Space of Square Integrable Functions on the Torus.</i>	A. Morozov. <i>Determination of the homotopy type of a Morse-Smale diffeomorphism on an orientable surface by a heteroclinic Intersection.</i>	M. Onufrienko. <i>Degenerate singularities of typical integrable systems.</i>
17:40-18:10		D. Akpan. <i>Singularities of Nijenhuis operators of corank one.</i>		A. Kazakov. <i>Kenyon-Wilson theorem and the embedding of the electrical networks to the positive part of Lagrangian Grassmannian.</i>

Poster Session (Wednesday, March 1)
(303, Sobolev Institute of Mathematics)

11:50-12:20

N. Chuesheva. *On the solvability of several nonlinear differential equations.*

A. Dobrolyubova. *Topological conjugacy of the simplest non-singular three-dimensional flows.*

D. Fomin. *About heteroclinic intersections of polar flows on the sphere.*

D. Maksimov. *On embedding of invariant manifolds of polar flows on the sphere.*

D. Rakhimullina. *Flute's Circular Scheme for Gradient-Like Surface Flows.*

E. Tsaplina. *Solution of the 33rd Palis-Pugh problem for an orientation-changing gradient-like diffeomorphisms of a two-dimensional sphere.*

G. Veryovkin. *Hamiltonicity criterion for the problem on rigid body motion in a flow of particles.*