



Program
International Conference "Geometry Days in Novosibirsk – 2013"
Sobolev Institute of Mathematics



Wednesday, August 28

8:00 – 9:50	<i>Registration (ground floor hall of the Institute of Mathematics)</i>		
	Plenary talks (conference hall)		
10:00 – 10:50	A. A. Agrachev, <i>Sub-Riemannian curvature</i>		
	<i>Coffee break (20 minutes)</i>		
11:10 – 12:00	N. P. Dolbilin, <i>Polytopes with centrally symmetrical faces and parallelhedra</i>		
12:10 – 13:00	Z. Rakić, <i>Osserman condition and duality principle</i>		
	<i>L u n c h (120 minutes)</i>		
	Section A (conference hall) Topology of 3-Manifolds	Section B (room 344) Differential Geometry	Section C (room 417) Differential Equations and Geometry
15:00 – 15:20	E. A. Fominykh	V. M. Gichev	V. P. Golubyatnikov
15:25 – 15:45	K. Yu. Shmelkov	V. V. Slavsky	I. V. Vyugin
15:50 – 16:10	A. A. Akimova	E. S. Kornev	Yu. A. Kordyukov
16:15 – 16:35	L. R. Nabeyeva	A. G. Sedykh	A. Ya. Sultanov
	<i>Coffee break (25 minutes)</i>		
17:00 – 17:20	T. A. Kozlovskaya	V. V. Slavsky	E. I. Ganzha
17:25 – 17:45	Ya. K. Ilyina		N. A. Chuesheva
17:50 – 18:10	A. M. Kulakova		

	Section A (conference hall) Topology of 3-Manifolds	Section B (room 344) Differential Geometry	Section C (room 417) Differential Equations and Geometry
15:00 – 15:20	E. A. Fominykh, <i>Hyperbolic 3-manifolds with cusps of complexity 8 and 9</i>	V. M. Gichev, <i>Semigroup property of foliations of vector spaces</i>	V. P. Golubyatnikov, <i>On cycles in some even-dimensional non-linear dynamical systems</i>
15:25 – 15:45	K. Yu. Shmelkov, <i>On structure of volume set of non-euclidean polyhedra</i>	V. V. Slavsky, <i>Computational problems of convex Lobachevsky geometry</i>	I. V. Vyugin, <i>On the local form of solutions of Painleve equations</i>
15:50 – 16:10	A. A. Akimova, <i>Classification of genus 1 virtual knots of low complexity</i>	E. S. Kornev, <i>Affinor Structures on the Lie Algebroids</i>	Yu. A. Kordyukov, <i>Semiclassical spectral asymptotics for a two-dimensional magnetic Schrodinger operator</i>
16:15 – 16:35	L. R. Nabeyeva, <i>Classification of knots of low complexity in the thickened Klein bottle</i>	A. G. Sedykh, <i>About geometry of homogeneous space $M^7 = SO(5)/SO(3)$</i>	A. Ya. Sultanov, <i>On lifts in Weil bundles</i>
<i>Coffee break (25 minutes)</i>			
17:00 – 17:20	T. A. Kozlovskaya, <i>Branched cyclic coverings of connected sums of lens spaces</i>	V. V. Slavsky, <i>On deformation of tensor fields on manifold</i>	E. I. Ganzha, <i>Twisted Laplace transform of linear partial differential equations</i>
17:25 – 17:45	Ya. K. Ilyina, <i>Classification of knotted arcs of low complexity in a thickened punctured torus</i>		N. A. Chuesheva, <i>Analytical theory of Prym differentials on variable compact Riemann surface</i>
17:50 – 18:10	A. M. Kulakova, <i>Proof of the theorem Schubert</i>		



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Plenary talks (conference hall)			
9:30 – 10:20	I. Kh. Sabitov, <i>On an approach to calculation of volume in Lobachevsky spaces</i>		
10:30 – 11:20	R. Nedela, <i>Recent progress in map enumeration</i>		
<i>Coffee break (20 minutes)</i>			
11:40 – 12:30	M. Sakuma, <i>Simple loops on bridge spheres and Heegaard surfaces</i>		
12:40 – 13:30	S. P. Tan, <i>A dilogarithm identity on moduli spaces of curves</i>		
<i>Lunch (90 minutes)</i>			
	Section A (conference hall) Geometry	Section B (room 344) Riemann Surfaces	Section C (room 417) Differential Equations and Geometry
15:00 – 15:20	L. N. Romakina	V. V. Chueshev	A. P. Chupahin
15:25 – 15:45	O. G. Bagina	O. A. Sergeeva	A. M. Barlukova
15:50 – 16:10		V. A. Shastin	Y. Friedman
16:10 – 16:30	<i>Conference photo (entrance to the Institute of Mathematics)</i>		
16:30 – 18:00	<i>Excursion</i>		
18:00 – 21:00	<i>Banquet</i>		

	Section A (conference hall) Geometry	Section B (room 344) Riemann Surfaces	Section C (room 417) Differential Equations and Geometry
15:00 – 15:20	L. N. Romakina, <i>Orthogonal oricyclic coordinate system on the hyperbolic plane of positive curvature</i>	V. V. Chueshev, <i>Analytical theory of Prym differentials on variable compact Riemann surface</i>	A. P. Chupahin, <i>Shallow water on the sphere: exact solutions and computer modeling</i>
15:25 – 15:45	O. G. Bagina, <i>Coronas for pentagons</i>	O. A. Sergeeva, <i>Operators in space of integrable (q,ρ)-forms on a compact Riemann surface</i>	A. M. Barlukova, <i>Simple waves in hemodynamics</i>
15:50 – 16:10	A. M. Gurin, <i>Aleksandrov's theorem on existence of a polyhedron</i>	V. A. Shastin, <i>Pseudocharacters of braid groups</i>	Y. Friedman, <i>Digitization of the harmonic oscillator in extended relativity</i>
16:10 – 16:30	<i>Conference photo (entrance to the Institute of Mathematics)</i>		
16:30 – 18:00	<i>Excursion</i>		
18:00 – 21:00	<i>Banquet</i>		



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Friday, August 30

Plenary talks (conference hall)			
9:30 – 10:20	I. A. Dynnikov, <i>On a typical leaf of a measured foliated 2-complex of thin type</i>		
10:30 – 11:20	T. E. Panov, <i>Complex geometry and toric topology</i>		
<i>Coffee break (20 minutes)</i>			
11:40 – 12:30	S. V. Buyalo, <i>Moebius characterization of the boundary at infinity of rank one symmetric spaces</i>		
12:40 – 13:30	P. D. Andreev, <i>The topology of Busemann non-positively curved G-spaces</i>		
<i>Lunch (90 minutes)</i>			
	Section A (conference hall) Applications of Topology	Section B (room 344) Maps on Surfaces	Section C (room 417) Analysis and Geometry
15:00 – 15:20	V. V. Vershinin	F. I. Solov'eva	A. E. Gutman
15:25 – 15:45	O. D. Ross	J. Karabáš	A. V. Tetenov
15:50 – 16:10	E. E. Skurichin	B. S. Bychkov	K. V. Storozhuk
16:15 – 16:35	E. S. Oshevskaya	M. A. Deryagina	A. O. Molchanova
<i>Coffee break (25 minutes)</i>			
17:00 – 17:20	R. V. Razumovsky	M. I. Tulina	Ya. A. Kopylov
17:25 – 17:45	M. V. Korobkov	T. A. Pushkareva	I. N. Shnurnikov

	Section A (conference hall) Applications of Topology	Section B (room 344) Maps on Surfaces	Section C (room 417) Analysis and Geometry
15:00 – 15:20	V. V. Vershinin, <i>On Cohen braids</i>	F. I. Solov'eva, <i>On self-embeddings of Steiner triple systems</i>	A. E. Gutman, <i>Sequentially convergent mappings and fixed-point theorems</i>
15:25 – 15:45	O. D. Ross, <i>On geometry of chains</i> $\Sigma(F_q, F_q[x,y] / \langle x^2, xy, y^2 \rangle)$	J. Karabáš, <i>Discrete group action on orientable surfaces</i>	A. V. Tetenov, <i>On equiinvariant projections of self-similar Jordan arcs</i>
15:50 – 16:10	E. E. Skurichin, <i>Categorical and geometrical approach to analysis of informational processes</i>	B. S. Bychkov, <i>Computation of megamaps</i>	K. V. Storozhuk, <i>Orbits of nonholonomic Lipschitz distributions</i>
16:15 – 16:35	E. S. Oshevskaya, <i>On some classes of directed topological spaces</i>	M. A. Deryagina, <i>Enumeration of two-colored map with given number of edges</i>	A. O. Molchanova, <i>Solution of variational problems in some classes of mappings with finite distortion</i>
<i>Coffee break (25 minutes)</i>			
17:00 – 17:20	R. V. Razumovsky, <i>Some classes of fiber links</i>	M. I. Tulina, <i>Special divisors of Prym differentials</i>	Ya. A. Kopylov, <i>Amenability of locally compact groups in terms of Orlicz functions</i>
17:25 – 17:45	M. V. Korobkov, <i>On Morse-Sard theorem, N-property and level sets for the sharp case of Sobolev-Lorentz mappings</i>	T. A. Pushkareva, <i>Harmonic Prym differentials and Gunning bundle</i>	I. N. Shnurnikov, <i>On the number of connected components in arrangements of submanifolds</i>



Preliminary program
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Saturday, August 31

Plenary talks (conference hall)		
9:30 – 10:20	A. Nakayashiki, <i>Schur function of Riemann surfaces</i>	
10:30 – 11:20	Z. Lángi, <i>The mathematics of pebbles: equilibria and Morse functions</i>	
<i>Coffee break (20 minutes)</i>		
	Section A (conference hall) Geometry	Section B (room 417) Differential Equations and Geometry
11:40 – 12:00	M. A. Ovchinnikov	S. P. Tsarev
12:05 – 12:25	A. V. Masley	N. V. Shtabel
12:30 – 12:50	A. V. Sherstobitov	E. I. Shamaev
<i>Closing of the Conference</i>		

	Section A (conference hall) Geometry	Section B (room 417) Differential Equations and Geometry
11:40 – 12:00	M. A. Ovchinnikov, <i>A proof of the geometric conjecture on bialgebras</i>	S. P. Tsarev, <i>Multidimensional Moutard transformation</i>
12:05 – 12:25	A. V. Masley, <i>Necessary and sufficient conditions for discreteness of Maskit groups</i>	N. V. Shtabel, <i>The application of differential form's theory to solving Maxwell's equations with tensor coefficients</i>
12:30 – 12:50	A. V. Sherstobitov, <i>Properties of a generalized hexahedron, generalized octahedron, and of their analogs in the four-dimensional space</i>	E. I. Shamaev, <i>The discrete geometric bisectors flow of convex polygons and its convergence</i>
<i>Closing of the Conference</i>		