Program
INTERNATIONAL CONFERENCE ON GEOMETRIC ANALYSIS
in honor of the 90th anniversary of academician Yu. G. Reshetnyak

Monday, September 23rd
Sobolev Institute of Mathematics

	MORNING SESSION (CONFERENCE HALL)
8:30 – 9:15	REGISTRATION
9:15 – 9:30	OPENING
9:30 – 10:10	*Pavel Plotnikov* Surfaces with L^2 second fundamental form: isothermal coordinates, Jordan–Brouwer theorem, extension of Sobolev functions
10:10 – 10:35	COFFEE
10:35 – 11:15	*Alexander Tyulenev* Korevaar–Schoen energy on strongly rectifiable spaces
11:20 – 12:00	*Vladimir Stepanov* Sharp estimates of sublinear and bilinear integral operators
12:00 – 14:00	LUNCH
14:00 – 14:40	*Vladimir Sharafutdinov* The Reshetnyak formula for the ray transform with polynomial weight

	Section A. **Geometry** (Conference Hall)	Section B. **Analysis** (Room 115)	Section C. **Dynamical Systems** (Room 213)	Section D. **Quasiconformal Analysis** (Room 220)
14:50 – 15:20	*Viktor Burenkov* Local Morrey type Spaces and Interpolation Theory	*Eugene Berezhnoi* Computing sums and intersections of local Morrey spaces	*Alexander Shlapunov* On the closure of the set of finitely supported smooth functions in anisotropic weighted Hölder spaces and de Rham complex over it	*Matti Vuorinen* Conformal invariants: a look at computation and theory
15:20 – 15:40	*Maxim Ivanov* F-polynomials and connected sums of virtual knots	*Alexander Gutman* Cumulative structure of a Boolean-valued model of Set theory	*Alexander Losev* Boundary Value Problems for Elliptic Equations on Model Riemannian Manifolds	*Anastasia Molchanova* Example of a smooth homeomorphism violating the Lusin N^{-1}-condition
15:40 – 16:00	*Kirill Kamalutdinov* Self-intersections of self-similar sets under translations and extensions of copies	*Ivan Emelyanenkov* Maximal cones in vector spaces	*Wei Wang* The quaternionic Monge–Ampère operator and closed positive currents on the Heisenberg group	*Yuri Dymchenko* The equality of capacity and modulus of condenser in some Banach functional spaces
16:00 – 16:20	Coffee			
16:20 – 16:40	*Dmitriy Drozdov* Deformations of polygaskets	*Mikhail Sgibnev* The Wiener–Hopf equation in measures	*Nikolay Arkashov* On the energy characteristics of the anomalous transfer processes	*Boris Levitskii* Reduced modules in the geometric theory of functions
16:40 – 17:00	*Prabhjot Singh* Types of growth points of a dendrite	*Valerii Pchelintsev* Composition operators on Sobolev spaces and the spectrum of elliptic operators	*Vladimir Golubyatnikov* On non-uniqueness of cycles of some dynamical systems in mathematical biology	*Anatoly Kopylov* Unique Determination of Conformal Type for Domains
17:00 – 17:20	*Andrei Tetenov* On families of subarcs in non-PCF dendrites	*Alexandr Romanov* On p-extremal mappings	*Larisa Kononenko* Binary correspondences and an algorithm for solving an inverse problem of chemical kinetics	
17:20 – 17:50	Poster session			
19:00 – 22:00	Welcome reception			

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Tuesday, September 24th
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	MORNING SESSION (CONFERENCE HALL)
9:30 – 10:10	*Sergei Lando* Complex and real Hurwitz numbers: from symmetric groups to new algebras
10:10 – 10:35	COFFEE
10:35 – 11:15	*Olexander Borisenko* On a generalization of the Toponogov theorem
11:20 – 12:00	*Semen Nasyrov* Nuttall's decomposition of a three-sheeted torus
12:00 – 14:00	LUNCH
14:00 – 14:40	*Sergei Buyalo* Inverse problem for Moebius geometry on the circle

	SECTION A. **GEOMETRY** (CONFERENCE HALL)	SECTION B. **ANALYSIS** (ROOM 115)	SECTION C. **COMPLEX ANALYSIS** (ROOM 220)
14:50 – 15:20	*Victor Slavsky* Legendre transformation of conformally convex functions	*Vladimir Semenov* Invariants and 3D Navier–Stokes equations: local and global solutions	*Alexander Mednykh* Jacobian group for cyclic coverings of a graph
15:20 – 15:40	*Pavel Klepikov* Conformal deformations and (pseudo)Riemannian manifolds with vectorial torsion	*Vladimir Vaskevich* The convergence order of minimal and almost minimal cubature formulas	*Jianhua Gong* Isolation in the moduli space of Kleinian groups
15:40 – 16:00	*Victor Alexandrov* The spectrum of the Laplacian in a domain bounded by a flexible polyhedron in R^d does not always remain unaltered during the flex	*Yuriy Volkov* Convergence of spline interpolation processes	*Ilya Mednykh* Enumeration of rooted spanning forests in circulant graphs
16:00 – 16:20	COFFEE		
16:20 – 16:40	*Eugene Kornev* Subtwistor bundle over four-dimensional sphere	*Victor Gichev* A family of harmonic polynomials whose factors are linear or quadratic	*Ivan Kolesnikov* Conformal mapping from the half-plane onto circular-arc polygon
16:40 – 17:00	*Vladimir Zolotov* SRA-free spaces and their applications	*Alexander Greshnov* Distance functions between sets and theorems of completeness in (q_1, q_2)-quasimetric spaces	*Yana Borisova* Extremal function in the Szego and Fekete problem
17:00 – 17:20	*Sergey Kazantsev* On a generalization of Zernike polynomials in a ball	*Richik Sengupta* On fixed points and points of coincidence of mappings in (q_1, q_2)-quasimetric spaces	*Sergey Astrakov* On regular covering/packing of the Euclidean plane with circles
17:20 – 17:40	*Olga Samarina* W. Blaschke's invariants application to image processing	*Konstantin Storozhuk* Strong extrema of functions on quasi-metric and compact spaces	

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Wednesday, September 25th
Sobolev Institute of Mathematics

	MORNING SESSION (CONFERENCE HALL)
9:30 – 10:10	*Alexey Davydov* Structural stability of dynamic inequalities on two-dimensional sphere
10:10 – 10:35	COFFEE
10:35 – 11:15	*Evgeniy Rodionov, Dmitrii Oskorbin* Ricci solitons and Killing vector fields on k-symmetric Lorentzian manifolds
11:20 – 12:00	*Aram Arutyunov, Sergey Zhukovskiy* Hadamard's global homeomorphism theorem under relaxed smoothness assumptions
12:00 – 14:00	LUNCH
14:00 – 14:40	*Yuri Reshetnyak* On studies of the stability problem in the Liouville theorem
14:45 – 15:25	*Avgust Tsikh* Convexity in complex analysis and tropical geometry

	SECTION A. **GEOMETRY** (CONFERENCE HALL)	SECTION B. **FUNCTIONAL ANALYSIS** (ROOM 213)	SECTION C. **GEOMETRIC CONTROL THEORY** (ROOM 220)
15:35 – 16:05	*Valerii Berestovskii* Finite homogeneous metric spaces	*Vyacheslav Chistyakov* Modular functional spaces	*Alexey Mashtakov* Sub–Riemannian geometry in image processing and modelling of human visual system
16:05 – 16:25	*Nikolay Abrosimov* The volume of a compact hyperbolic tetrahedron in terms of its edge lengths	*Yaroslav Kopylov* Some Calculations of Orlicz Cohomology	*Andrei Ardentov* Motion control of mobile wheeled robot along Euler's elastic
16:25 – 16:55	COFFEE		
16:55 – 17:15	*Andrei Egorov* Volumes of right-angled polyhedra in Lobachevsky space	*Tagir Latfullin* Linear ordering of classes of $W^{1,2}$-extension domains	*Sergey Basalaev* Kernel of Hörmander-type operator with vector fields of low smoothness
17:15 – 17:35	*Evgenii Meshcheriakov* On volumes of the convex hulls of leaves for foliations with semigroup property	*Alexander Menovschikov, Nikita Evseev* On the change of variable in L_p-spaces with a changing internal structure	*Valerii Berestovskii, Irina Zubareva* (Co)adjoint representation, and normal geodesics of left-invariant (sub-)Finsler metrics on Lie groups
17:35 – 17:55	*Vladimir Kyrov* Solution of the problem of embedding for three-dimensional geometries of local maximum mobility	*Dmitrii Prokhorov* On a class of functionals on a weighted Sobolev space of first order on the real line	*Eugene Malkovich* Connections for non-holonomic distributions
17:55 – 18:15	*Rada Bogdanova, Gennady Mikhailichenko* General nondegenerate solution of one system of functional equations	*Mikhail Sychev* Variational field theory in Sobolev spaces	*Mikhail Kuznetcov* Application of the generalized Fourier transform to sub-Riemannian trace heat kernel asymptotics
18:15 – 18:35	*Rada Bogdanova, Vladimir Kyrov* Group of motions of a special four-dimensional extension of pseudo-Euclidean three-dimensional geometry	*Ondřej Bouchala* Measures of non-compactness and Sobolev–Lorentz spaces	*Roman Zhukov* cc-uniformity of hyperspaces on the Engel canonical group

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Thursday, September 26th
Sobolev Institute of Mathematics

	MORNING SESSION (CONFERENCE HALL)
9:30 – 10:00	Congratulations with the Anniversary
10:00 – 10:10	CONFERENCE PHOTO
10:10 – 10:35	COFFEE
10:35 – 11:15	*Sergei Kislyakov* Interpolation of Hardy-type spaces and of their intersections
11:20 – 12:00	*Sergei Ivanov* Interpolation of Riemannian manifolds
12:00 – 14:00	LUNCH
14:00 – 14:40	*Mark Agranovsky* On integrable domains and surfaces
14:45 – 15:25	*Maria Karmanova* Level Sets of Classes of Mappings on Non-Holonomic Structures
	SOCIAL PROGRAM
16:00 – 17:00	GUIDED TOUR "EVOLUTION OF THE EARTH" – NOVOSIBIRSK STATE UNIVERSITY
19:00 – 22:00	SOCIAL DINNER

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Friday, September 27th
Sobolev Institute of Mathematics

	MORNING SESSION (CONFERENCE HALL)
9:30 – 10:10	*Vladimir Dubinin* Condenser capacities and symmetrization in geometric function theory
10:10 – 10:35	COFFEE
10:35 – 11:15	*Yosef Yomdin* Smooth parameterizations in dynamics, analysis, and Diophantine geometry
11:20 – 12:00	*Andrei Vesnin* On the structure of the set of hyperbolic rectangular polygons
12:00 – 14:00	LUNCH
14:00 – 14:40	*Lev Lokutsievsky* Analytical solution of Newton's aerodynamic problem without the assumption of rotational symmetry

	SECTION A. **GEOMETRY** (CONFERENCE HALL)	SECTION B. **ANALYSIS** (ROOM 213)	SECTION C. **GEOMETRIC ANALYSIS** (ROOM 220)
14:50 – 15:20	*Armen Sergeev* Harmonic Maps and Yang–Mills Fields	*Mikhail Goldman* Estimates of operators on the cones of functions with monotonicity properties and optimal embeddings	*Albina Gobysh, Vadim Seleznev* On quasiconformal connection of the Lagrangean and Eulerian coordinates
15:20 – 15:40	*Sergey Agapov* First integrals of magnetic geodesic flows on the 2-torus	*Vladimir Belykh* On Kolmogorov's Entropy for a Compact Set of Infinitely Differentiable Aperiodic Function (Babenko's Problem)	*Vladimir Shlyk* Weighted Sobolev space and capacity with Muckenhoupt weight
15:40 – 16:00	*Olga Yufereva* Gromov–Hausdorff closed spaces and approximate capture	*Andrei Biryuk* Strong solutions to the Boltzmann equation in the case of a one-dimensional spatial variable	*Dmitry Trotsenko* Fundamental extension function for bilipschitz maps
16:00 – 16:20	COFFEE		
16:20 – 16:40	*Olesya Khromova* Einstein equation on metric Lie groups with vectorial torsion	*Alexander Kachurovskii* Fejer sums and the von Neumann ergodic theorem	*Evgeni Shcherbakov* On Gibbs equilibrium surfaces
16:40 – 17:00	*Irina Polikanova* Curves with affine-congruent arcs	*Ivan Podvigin* On deviations of ergodic averages	