

**Programme of The International Conference
"Geometry days in Novosibirsk, 2011"
devoted to the 50-th anniversary of Geometry and topology chair,
Novosibirsk State University**

September, 1 (Thursday)

8:00-9:00 registration

9:00-9:50

**Yu.G. Reshetnyak
(Novosibirsk)**

Differential properties of one class of surfaces

10 min. break

10:00-10:50

**V.E. Zakharov
(Moscow)**

**Spaces of diagonal curvature and n -orthogonal
coordinate systems**

20 min. coffee

11:10-12:00

**S.K. Godunov
(Novosibirsk)**

**Thermodynamically consistent model of relativistic
hydrodynamics**

10 min. break

12:10-13:00

**S.P. Tsarev
(Krasnoyarsk)**

**Classical and modern results of integration theory of
algebraic functions**

60 min. lunch

14:00-14:50

**D.S. Chelkak
(St. Petersburg)**

**Conformal invariance in the critical Ising model:
correlations and interfaces**

10 min. break

15:00-15:50

**V.P. Golubyatnikov
(Novosibirsk)**

**Phase portraits of certain nonlinear dynamical systems
in mathematical biology**

15:50-16:20

**E.Yu. Bun'kova
(Moscow)**

**Krichever formal group and deformed Baker-Akhiezer
function**

20 min. coffee

16:40-17:10

**Ya.V. Bazaikin
(Novosibirsk)**

**Riemannian metrics with holonomy group G_2 of
cohomogeneity one**

17:10-17:40

**E.A. Fominykh
(Chelyabinsk)**

**Exact values of complexity for infinite series of 3-
manifolds**

17:40-18:00

**D.A. Slutskiy
(Toulouse, France)**

**One necessary condition of flexibility for suspension in
hyperbolic space**

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September, 2 (Friday)

9:00-9:50 S.V. Matveev (Chelyabinsk)	<i>Primary decompositions and Diamond Lemma</i>
	10 min. break
10:00-10:50 I.A. Dynnikov (Moscow)	<i>Simplifying discs for rectangular diagrams</i>
	20 min. coffee
11:10-12:00 V.A. Sharafutdinov (Novosibirsk)	<i>Calderon problem for exterior differential forms. The statement and the first results</i>
	10 min. break
12:10-13:00 S.K. Vodopyanov (Novosibirsk)	<i>Metric geometry of Carnot-Caratheodory spaces and applications</i>
	60 min. lunch
14:00-14:50 P.I. Plotnikov (Novosibirsk)	<i>Modeling hydroelastic waves and the Willmore functional</i>
	10 min. break
15:00-15:50 A.B. Zheglov (Moscow)	<i>On the rings of commuting differential operators</i>
15:50-16:20 D.V. Millionshchikov (Moscow)	<i>Variety of nilpotent Lie algebras: Rigid central extensions</i>
	20 min. coffee
16:40-17:10 A.P. Chupakhin (Novosibirsk)	<i>Geometrical aspects of hydrodynamics on sphere</i>
17:10-17:40 T.E. Panov (Moscow)	<i>The intersections of quadrics, the moment-angle manifolds and Hamiltonian-minimal Lagrangian embeddings</i>
17:40-18:10 A.E. Mironov (Novosibirsk)	<i>Commuting selfadjoint differential operators and commutative Weyl subalgebras</i>

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September, 3 (Saturday)

9:00-9:50	
D. Repovs (Ljubljana, Slovenia)	<i>The Bing-Borsuk and the Busemann Conjectures</i>
	10 min. break
10:00-10:50	
A.D. Mednykh (Novosibirsk)	<i>Geometry of knots and links</i>
	20 min. coffee
11:10-12:00	
V.N. Berestovskiy (Omsk)	<i>Zonal spherical functions on compact symmetric spaces of rank 1 and special functions</i>
	10 min. break
12:10-12:40	
Yu.D. Burago (St. Petersburg)	<i>Surfaces in normed spaces after D.Burago and S.Ivanov</i>
	80 min. lunch
14:00-14:50	
E.E. Skurikhin (Vladivostok)	<i>Cohomological dimension of categorical topological spaces</i>
	10 min. break
15:00-15:50	
V.V. Verchinine (Montpellier, France)	<i>Brunnian Braids on Surfaces</i>
15:50-16:20	
A.V. Zhubr (Syktyvkar)	<i>Enumeration of three-dimensional knots in manifold $S^3 \times S^3$ (classification up to diffeomorphism)</i>
	20 min. coffee
16:40-17:10	
E.Yu. Emelyanov (Ankara, Turkey)	<i>Geometry of Banach spaces and operator theory</i>
17:10-17:40	
V.Yu. Rovenski (Haifa, Israel)	<i>Extrinsic Geometry of Codimension-one Foliations</i>
17:40-18:00	
Ya.V. Slavolyubova (Kemerovo)	<i>The left-invariant pseudo-Einstein structure on a five-dimensional Lie groups</i>
	18:00. Dinner

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September, 4 (Sunday)

9:00-9:50

**V.V. Chueshev
(Kemerovo)**

Prym differentials on variable Riemann surfaces

10 min. break

10:00-10:50

**A.P. Kopylov
(Novosibirsk)**

**On the unique determination of the conformal type of
polygonal areas with related boundaries**

20 min. coffee

11:10-11:40

**V.A. Alexandrov
(Novosibirsk)**

**Around A.D. Alexandrov theorem on the characterization
of a sphere**

11:40-12:10

**A.A. Egorov and
N.S. Orlova
(Novosibirsk)**

**Stability of classes of solutions for differential equations
with quasi-convex function and zero-Lagrangian**

12:10-12:40

**A.G. Kachurovskii
(Novosibirsk)**

**Geometrical and physical meaning of martingale-ergodic
theorem**

80 min. lunch

14:00-14:30

**A.V. Greshnov
(Novosibirsk)**

The geometry of cc-balls for Heisenberg groups

14:30-15:00

**N.V. Abrosimov
(Novosibirsk)**

Volumes of non-Euclidean polyhedra

15:00-15:30

**K.V. Storozhuk
(Novosibirsk)**

**Symmetric invariant spaces of complexifications for
linear operators**

20 min. coffee

15:50-16:20

**D.V. Egorov
(Yakutsk)**

A new equation on Calabi-Yau metric in low dimensions

16:20-16:50

**E.I. Shamaev
(Yakutsk)**

**Convergence of the discrete analogue of the inverse
mean curvature flow for strictly convex polygons**

16:50-17:10

**A.V. Maslei
(Novosibirsk)**

**Two-generated isometry groups of the hyperbolic space:
orbits of points and discreteness**