

International Conference
GEOMETRY, DIFFERENTIAL EQUATIONS and ANALYSIS

in memory of Aleksei Vasilyevich Pogorelov for his 100th birthday anniversary

17–21 June, 2019, Kharkiv, Ukraine

Registration, opening and all talks will take place at the V.N. Karazin National University,
 4 Svobody Sq. (subway station "Universytet"), 6-th floor.

Monday 17.06 (room 6-52)	Tuesday 18.06 (room 6-49)	Wednesday 19.06 (room 6-49)	Thursday 20.06 (room 6-49)	Friday 21.06 (room 6-49)
9:00-10:00 Registration (Hall by room 6-52)	10:00-10:40 I.Sabitov <i>Manifolds and surfaces with locally Euclidean metrics</i>	10:00-10:40 A.Borbely <i>Bounded harmonic functions on negatively curved manifolds</i>	10:00-10:40 Y.Nikonorov <i>Recent results on homogeneous geodesics and geodesic orbit spaces</i>	10:00-10:20 K.Tatarko <i>A Steiner formula in the L_p Brunn Minkowski problem</i>
10:00 - 10:20 Opening ceremony				10:25-10:45 S.Myroshnichenko <i>On recognizing shapes of bodies from their shadows</i>
10:20-11:10 V.Milman <i>Flowers and Reciprocity in Convex Geometry</i>	10:45-11:25 Y.Nikolayevsky <i>On cylindricity of submanifolds of nonnegative Ricci curvature in a Minkowski space</i>	10:45-11:25 N.Nadirashvili <i>Isoperimetric inequalities for spectrum of Laplacian on surfaces</i>	10:45-11:25 W.Klingenberg <i>On a conjecture of Toponogov on complete convex surfaces</i>	10:50-11:10 A.Yampolsky <i>Projective classification of points of a submanifold F^3 in E^6</i>
11:15-11:55 A.Eremenko <i>Metrics of constant positive curvature with conic singularities</i>				11:15-11:35 D.Sukhorebska <i>Full classification of simple closed geodesics on regular tetrahedra in Lobachevsky space</i>
12:00 - 12:30 Coffee break (room 6-50)	11:30 - 12:00 Coffee break (room 6-50)	11:30 - 12:00 Coffee break (room 6-50)	11:30 - 12:00 Coffee break (room 6-50)	11:40-12:00 Coffee break (room 6-50)

<p>12:30 - 13:10 V.Miquel <i>The volume preserving mean curvature flow in the sphere and the Lagrangian mean curvature flow in C^2</i></p>	<p>12:00-12:40 N.Krylov <i>About Aleksandrov's estimates</i></p>	<p>12:00 - 12:40 M.Sodin <i>Laplacian eigenfunctions with a level set having infinitely many connected components</i></p>	<p>12:00 - 12:40 V.Yaskin <i>On Gruenbaum-type inequalities and their applications</i></p>	<p>12:00-12:20 S.Ignatovich <i>Surfaces of maximal singularity for homogeneous control systems</i></p> <p>12:25-12:45 K.Khalina <i>On reachability and controllability problems for the heat equation controlled by the Neumann boundary condition on a half-axis</i></p>
<p>13.15-13.55 E.Musso. <i>Cauchy-Riemann geometry of Legendrian knots in the 3-dimensional sphere.</i></p>	<p>12:45 - 13:25 S.Kuksin <i>Rigorous theory of 1d turbulence</i></p>	<p>12:45-13:25 POSTER SESSION (Hall by room 6-52)</p>	<p>12.45 - 13.25 A.Mironov <i>Algebraic nonintegrability of magnetic billiards on the sphere and hyperbolic plane</i></p>	<p>12:50-13:20 S.Zagorodnyuk <i>On the truncated two-dimensional moment problem</i></p> <p>13:25-13:45 A.Piven <i>One-point initial problem for a nonhomogeneous linear differential-difference equation in a Banach space</i></p>
<p>14:00-15:30 Dinner</p>	<p>13:30-15:00 Dinner</p>	<p>13:30-15:00 Dinner</p>	<p>13:30-15:00 Dinner</p>	<p>13.50 -14.00 Closing ceremony</p>

<p>15:30-15:50 K.Drach <i>On the reverse isoperimetric problem for uniformly convex bodies</i></p>	<p>15:00-15:20 D.Ryabogin <i>On a local version of the fifth Busemann-Petty problem</i></p>	<p>15:00-17:00 Excursion</p>	<p>15:00-15:20 A.Pampano <i>Solutions of the Ermakov-Milne-Pinney equation and invariant constant mean curvature surfaces</i></p>
<p>15:55-16:15 G.Livshyts <i>Are log-concave measures better than log-concave with symmetry?</i></p>	<p>15:25-15:45 A.Prymak <i>On illumination of the boundary of a convex body in E_n, $n=4,5,6$.</i></p>		<p>15:25-15:45 A.Lytova <i>On delocalization of eigenvectors of random non-Hermitian matrices</i></p>
<p>16:20-16:40 Y.Aminov <i>Action of the Monge-Ampere operator on polynomials</i></p>	<p>15:50-16:10 M.Poplavskiy <i>On the persistence probability for Kac polynomials, random walks and random matrices</i></p>		<p>15:50-16:10 A.Rashkovskii <i>Geodesic interpolation of weighted extremal functions</i></p>
<p>16:45-17:10 Coffee break (room 6-50)</p>	<p>16:15-16:45 Coffee break (room 6-50)</p>		<p>16:15-16:45 Coffee break (room 6-50)</p>
<p>17:10-17:30 I.Afnasiev <i>On the correlation functions of the characteristic polynomials of the non-Hermitian random matrices with independent entries</i></p>	<p>16:50 - 17:10 S. Boldt <i>The Height Of Compact Nonsingular Heisenberg-like Nilmanifolds</i></p>		<p>16:50-17:10 S.Maksymenko <i>Diffeomorphisms preserving Morse-Bott functions</i></p>
<p>17:35-17:55 V.Mogilevskii <i>Couplings of symmetric operators with possibly unequal and infinite deficiency indices</i></p>	<p>17:15-17:35 D.Bolotov <i>On PL-embeddings S^2 into E^4</i></p>		<p>17:15-17:35 A.Kravchenko <i>Automorphisms of the Kronrod-Reeb graph of Morse functions on the sphere</i></p>
	<p>17:40-18:00 E.Sevost'yanov <i>On global behavior of Sobolev and Orlicz-Sobolev classes in terms of prime ends</i></p>	<p>17:40-18:00 O.Khohliyk <i>Diffeomorphisms of the solid torus preserving a codimension one Morse-Bott foliation with one singular circle</i></p>	
<p>18.00 Welcom Party</p>		<p>17:00 Conference dinner</p>	

Poster Session

O. Hukalov, V. Gordevskyy	Some approximate solutions of the Bryan-Pidduck equation
S.Pokas, A.Krutoholova	Infinitesimal conformal transformations of the second degree in the Riemannian space of the second approximation
K. Stiepanova, V. Gorkavyy	Helical tractrices and pseudo-spherical submanifolds in R^n
R. Posylaieva, V. Gorkavyy	One integral inequality for curvatures of closed curves in R^n
V. Gorkavyy	Around model flexors
V. Korobov, T. Revina	The envelope for a family of ellipsoids in the controllability function method
T.V. Revina, H.A. Samoilenko	Nested ellipsoids
I. Kuznietsova, Yu. Soroka	First Betti numbers of orbits of Morse functions on surfaces
A. Kheifets, P. Yuditskii	Hardy Spaces of Fuchsian Groups in the Upper Half-plane
V.O. Makarichev, I.V. Brysina	On some applications of atomic functions and their generalizations
Ye.A. Yevgenieva	Propagation of singularities for solutions of quasilinear parabolic equations with absorption term
D.Y. Bobyliev	Theoretically investigating the loss of stability and supercritical behaviour of a thin-walled shell
T. Pernata	Long-time behaviour of a thermoelastic Bresse system