

**VI International Conference
ANALYSIS AND MATHEMATICAL PHYSICS
18-22 June, 2018, Kharkiv, Ukraine**

Monday, June 18		
09:00-10:00	Registration (ILTPE main hall)	
10:00-10:10	Conference opening ceremony	
Morning session: Chairperson L. Pastur		
10:10-10:50	Rashkovskii, A.	Plurisubharmonic geodesics, holomorphic hulls and interpolation
10:50-11:20	Poplavskiy, M.	On the persistence probability for Kac polynomials and truncations of random orthogonal matrices
11:20-11:40	Coffee break	
11:40-12:20	Yampolsky, A.	Caustics by reflection in the Euclidean n-space
12:20-12:50	Marchenko, Vitalii.	The XYZ theorem is sharp
12:50-14:30	Lunch	
Afternoon session: Chairperson D. Shepelsky		
14:30-15:10	Fardigola, L.	Transformation operators and wave equations in bounded and unbounded domains
15:10-15:40	Ignatovich, S.	Linearizability of control systems of the class C^1
15:40-16:00	Coffee break	
16:00-16:40	Kotlyarov, V.	A Baker-Akhiezer function and finite-gap solutions of the Maxwell-Bloch equations
16:40-17:10	Minakov, A.	Solvability of Whitham type system of equations for stimulated Raman scattering
18:30	Get Together Party	

Tuesday, June 19

09:00-09:30	Registration (ILTPE main hall)	
Morning session: Chairperson A. Rashkovskii		
09:30-10:10	Eremenko, A.	PT-symmetric eigenvalues of homogeneous potentials
10:10-10:40	Fastovska, T.	Pullback attractors for processes generated by fluid-plate interaction systems
10:40-11:00	Coffee break	
11:00-11:40	Golinskii, L.	On a local Darlington synthesis problem
11:40-12:10	Lytova, A.	On eigenvalues and singular values of adjacency matrices of regular directed random graphs
12:10-14:00	Lunch	
Afternoon session: Chairperson Vitalii Marchenko		
14:00-14:20	Goncharuk, A.	Pólya theorem about entire integer-valued functions and uniqueness of an integer solution of an implicit linear difference equation
14:20-14:40	Karpenko, I.	A Riemann–Hilbert approach to the modified Camassa–Holm equation with nonzero boundary conditions
14:40-15:00	Nguyen, Thu Hien	On the conditions for special entire functions to belong to the Laguerre–Pólya class
15:00-15:20	Coffee break	
15:20-15:40	Pryimak, A.	The Toda rarefaction problem
15:40-16:00	Rybalko, Y.	Long-time asymptotics for the integrable nonlocal nonlinear Schrödinger equation with step-like initial data
16:00-16:20	Sukhorebska, D.	Close geodesics on regular tetrahedra in hyperbolic space

Wednesday, June 20		
Morning session: Chairperson A. Yampolsky		
09:30-10:10	Aminov, Yu.	To Hopf's conjecture about metric on the topological product $S^2 \times S^2$ of two 2-spheres
10:10-10:40	Makarichev, V.	Generalized Fup-functions and their applications
10:40-11:00	Coffee break	
11:00-11:40	Bolotov, D.	Foliations of bounded absolute total curvature
11:40-12:10	Obikhod, T.	K-group identification of supergravity solutions
12:10-14:00	Lunch	
Afternoon session: Chairperson S. Ignatovich		
14:00-14:40	Korobov, V.	The time-optimal problem and vector min-moment problem
14:40-15:10	Rezounenko, A.	Partial differential equations with state-dependent delays: different types of solutions
15:10-15:30	Coffee break	
15:30-16:10	Mogilevskii, V.	Symmetric extensions of symmetric linear relations (operators) preserving the multivalued part
16:10-16:40	Ryzhkova-Gerasymova, I.	Modification of quasistability method for application in study of non-autonomous processes

Thursday, June 21**Morning session: Chairperson V. Korobov**

09:30-10:10	Zolotarev, V.	Model representations of non-selfadjoint operator bundles
10:10-10:40	Barkhayev, P.	Exact null controllability of retarded and mixed time-delay systems
10:40-11:00	Coffee break	
11:00-11:40	Sinel'shchikov, S.	On $U_q\mathfrak{sl}_2$ -symmetries for certain quantum domains
11:40-12:10	Bebiya, M.	Synthesis problem for nonlinear systems with power principal part
12:10-14:00	Lunch	
Afternoon session: Chairperson A. Eremenko		
14:00-14:40	Sodin, M.	Spectral measures of finitely valued stationary sequences and an approximation problem on the circle
14:40-15:10	Voitovych, M.	Pointwise estimates for solutions of some high-order nonlinear elliptic equations in the terms of Wolff's potentials
15:10-15:30	Coffee break	
15:30-16:00	Khalina, K.	On the controllability problems for the heat equation on a half-axis
16:00-16:30	Uvarov, D.	Ambitwistor space realization of $SU(2,2)$ positive energy unitary irreducible representations corresponding to massless fields on anti-de Sitter space

Friday, June 22**Morning session: Chairperson A. Resounenko**

09:30-10:00	Kostenko, O.	The approximate solutions of a complete second-kind hypersingular integral equation
10:00-10:30	Revina, T.	Several approaches for solving feedback synthesis for the perturbed double integrator
10:30-10:50	Coffee break	
10:50-11:10	Tsarevskaia, A.	Time-optimal problem solution for the linear system in the case of getting on the subspace
11:10-11:30	Zhaba, V.	Analytical forms of deuteron wave function for potentials Nijmegen group and density distribution
11:30-11:50	Kovalova, T.	On some properties of the characteristic vector field of α -Sasakian and β -Kenmotsu manifolds