

## The program of the Conference

### «Topological Methods in Dynamics and Related Topics – 2020»

#### December 12 (Saturday)

	<b>Chairman: L. Lerman</b>
9.00-9.25	<b>Gorodetski A.</b> <i>Generalizations of the Furstenberg Theorem on random matrix products</i>
9.30-9.55	<b>Ilyashenko Y.</b> <i>News in the global bifurcation theory on the plane</i>
10.00-10.25	<b>Efremova L.</b> <i>Small Perturbation of Smooth Skew Products and the Partial Integrability Property</i>
10.30-10.55	<b>Kryzhevich S.</b> <i>Constructive connecting lemmas for conservative flows on Euclidean spaces</i>
11.00-11.25	<b>Okunev A.</b> <i>On the phase change for perturbations of Hamiltonian systems with separatix crossing</i>
11.30-11.55	<b>Kalyakin L.</b> <i>Asymptotics of the dynamic bifurcation saddle-node</i>
12.00-12.25	<b>Glutsyuk A.</b> <i>Density of thin film billiard reflection pseudogroup in Hamiltonian symplectomorphism pseudogroup</i>
12.30-12.55	<b>Crovisier S.</b> <i>Topological renormalization in the Henon family</i>
	<b>Chairman: S. Maksymenko</b>
13.00-13.25	<b>Hiraku N.</b> <i>Rigidity of Lie foliations with locally symmetric leaves</i>
13.30-13.55	<b>Ramon Barral Lijo</b> <i>Foliated Devaney chaos</i>

14.00-14.25	<b>Zhukova N.</b> <i>Chaos in foliations with transverse geometries</i>
14.30-14.55	<b>Maksymenko S.</b> <i>Smooth approximations and their applications to homotopy types</i>
15.00-15.25	<b>Galaev A.</b> <i>On Godbillon-Vey-Losik class for Reeb foliations</i>
15.30-15.55	<b>Mormul P.</b> <i>Singularities of special multi-flags at the crossroads of Algebraic Geometry and Differential Geometry</i>
	<b>Chairman: I. Remizov</b>
16.00-16.25	<b>Sakbaev V.</b> <i>Analogs of Lebesgue measure on Hilbert space and its applications</i>
16.30-16.55	<b>Kuznetsov M., Kondrateva A.</b> <i>Non-alternating Hamiltonian Lie algebras of even characteristic: new series of simple Lie algebras</i>
17.00-17.25	<b>Skuratovskii R.</b> <i>Verbal width by set of squares of alternating group <math>A_n</math> and its subgroups</i>
17.30-17.55	<b>Meshcheryakov M.</b> <i>On the exactness of stationary phase methods for matrix coefficient of some linear irreducible representations of compact Lie</i>

**December 13 (Sunday) Morning session is dedicated to the birthday of V. Z. Grines**

	<b>Chairman: O. Pochinka</b>
9.30-9.55	<b>Pochinka O.</b> <i>Scientific collaboration with my teacher V.Z. Grines</i>
10.00-10.25	<b>Gurevich E.</b> <i>Topological classification of Morse-Smale systems on a sphere of dimension four and higher</i>
10.30-10.55	<b>Zhuzhoma E.</b> <i>Grines and chaos</i>
11.00-11.25	<b>Lerman L.</b> <i>Topology of integrable Hamiltonian systems and their bifurcations</i>
11.30-11.55	<b>Polotovskiy G.</b> <i>V.A. Rokhlin and D.A. Gudkov against the background of Hilbert's 16th problem</i>

12.00-12.25	<b>Gonchenko S.</b> <i>Homoclinic trajectories as «building blocks» of chaos</i>
12.30-12.55	<b>Turaev D.</b>
	<b>Chairman: E. Gurevich</b>
13:00-13.25	<b>Akhmet'ev P.</b> <i>On an asymptotic property of the M-integral for oriented 3-components links in <math>R^3</math></i>
13.30-13.55	<b>Shekutkovski N.</b> <i>Connectivity notions and properties - a new approach by coverings</i>
14.00-14.25	<b>Kachurovsky A.</b> <i>Von Neumann's ergodic theorem and Fejer sums for signed measures on the circle</i>
14.30-14.55	<b>Ruan H.</b> <i>Hidden symmetries, coupled networks and equivariant degrees</i>
15.00-15.25	<b>Belyakin S.</b> <i>Classical soliton theory for studying the dynamics and evolution of toroidal vortices shock waves in passive dispersed and active relaxation media</i>
	<b>Chairman: A. Kazakov</b>
15.30-15.55	<b>Ryabov P., Sokolov S. and Kaverina V.</b> <i>On the singular fibre with a doubly pinched torus and its realization in one mechanical system</i>
16.00-16.25	<b>Palshin G.</b> <i>Python visualization of Grobli solution for three magnetic vortices</i>
16.30-16.55	<b>Stankevich N.</b> <i>Chaos with additional zero Lyapunov exponents in radiophysical generators</i>
17.00-17.25	<b>Sinelshchikov D.</b> <i>Synchronization and symmetry breaking in a model of two interacting ultrasound contrast agents</i>
17.30-17.55	<b>Bagautdinova E., Stankevich N.</b> <i>Bistability in a Hodgkin-Huxley-type of model with a communication defect.</i>