

Scientific program of *Shilnikov WorkShop 2018*

Date:	17.12.2020	
9-30 - 10-00	Opening Conference	
<i>Morning session: chairnam</i> Gonchenko S.		
Time	Speaker	Title of the talk
10-00–10-40	Pochinka O.V.	Stable arcs connecting polar cascades on a torus
0-45–11-15	Kocharovskiy V.V., Garasev M.A., Kuznetsov A.A., Nechaev A.A., Kocharovskiy Vi.V.	Quasi-linear approach in the theory of the Weibel instability in an anisotropic collisionless plasma: Nonlinear phenomena in the cases of one, two or several energetic modes
11-15 – 11:45	Kocharovskiy Vi. V., Kocharovskiy V. V., Nechaev A. A., Tarasov S.V.	“One-dimensional model of a magnetic transition layer in a multi-component collisionless plasma with a kappa energy distribution of particles”
11-50 – 12-15	Kashchenko I.S., Maslennikov I.N.	Local dynamics of a second order equation with a delay in the derivative
12-20 - 12-45	M. Malkin, K. Safonov	A monotonicity criterion for topological entropy with application to families of Lorenz maps
12-50 – 13-15	Golokolenov A. V., Savin D.V.	The dynamics of self-oscillating systems allowing the transition to the system demonstrating the “stochastic web” in the conservative limit
Break		
<i>Evening session: chairman</i> Lerman L.		
14-00 – 14-40	Zelik S.	Recent progress in the theory of Inertial Manifolds
14-45 – 15-10	Kostyanko A.	Bi-Lipshitz Mane projections and finite-dimensional reduction for complex Ginsburg-Landau equation
15-15 – 15-40	Lohse A.	Stability of heteroclinic attractors in equivariant dynamical systems

15-45 – 16-10	Ovsyannikov I.	Birth of discrete Lorenz attractors in homoclinic and heteroclinic cycles of type (2,1) and (1,2).
16-15 – 16-55	Shilnikov A., Huiven Ju, Krishna Pusuluri	Rare chaos in neuron models
17-00 - 17-40	Lamb J.	Conditioned Lyapunov exponents for random dynamical systems
17-45 - 18-10	Tarasova T.V., Slunyaev A.V.	Synchronous collisions of many KdV solitons: effect on the wave statistics
18-15- 18-40	Alfimov G.	A method for counting of solitons for vector defocusing NLS equation with external potential
18-40-19-00	Fadeeva N.S., Stankevich N.V.	The simplest radiophysical generators with Quasiperiodic Henon-like attractors

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This session is dedicated to the memory of
V.S. Anishchenko, S.P. Kuznetsov and D.I. Trubetskov

Morning session: chairnam **Gonchenko S.**

Time	Speaker	Title of the talk
10-00 – 10-45	Vadivasova T.	Remembering V.S. Anishchenko
	Shepelev I.	Reasons of emergence of labyrinth-like structures and chimera states in a strongly coupled 2D lattice of van der Pol oscillators
10-50 – 11-30	Belykh V.	On Vadim Anishchenko and recently passed colleagues
11-35 – 12-10	Nekorkin V., Ryskin N.	In memory of Dmitry Ivanovich Trubetskov. D.I. Trubetskov and works on non-stationary microwave electronics.
12-15-12-50	Sysoev I.V., Kapustnikov A.A., Egorov N.M., Sysoeva M.V.	Transient dynamics as a model of spike-wave discharges

12-50 - 13-10	Bukh A.V., Shepelev I.A., Strelkova G.I., Anishchenko V.S.	Anti-phase relay synchronization of two-dimensional spatio-temporal structures
Break		
<i>Evening session: chairman Malkin M.</i>		
14-00 – 14-30	Seleznev E.P., Stankevich N.V., Kazakov A.O., Gonchenko S.V.	Mixed dynamics implementation in a physical experiment
14-35 – 15-05	Glyzin S., Kashchenko S.	Dynamics of the Fisher--Kolmogorov equation with a deviation in the spatial variable
15-10 - 15-35	Dmitriev A.S., Petrosyan M.M., Ryzhov A.I.	Artificial radio lighting by radiation sources based on dynamical chaos
15-40 - 16-20	Neiman A.B., Chauhan K., Khaledi-Nasab A., Kromer J., Schimansky-Geier L.	Dynamics and information transfer in tree networks of noisy excitable elements
16.20-16.45	Emelianova A.A., Nekorkin V.I.	Mixed dynamics in a system of forced adaptively coupled Kuramoto oscillators
16.50-17.15	Kulikov A., Kulikov V.I.	Ginzburg-Landau variation equation. Local bifurcations and the global attractor
17.20-17.45	Kashchenko A. A.	Coexistence of Periodic Regimes in a System of Coupled Oscillators with Delay
17.50-18.10	Rybalova E.V., Strelkova G.I., Anishchenko V.S.	Effects of synchronization in heterogeneous multiplex networks with sparse coupling between layers
8.15-18.35	Dukov A.V.	Multiple limit cycles in generic finite-parameter families
18.40-19.00	Grines V., Kazakov A., Mints D.	On perturbations of algebraic Anosov automorphisms
19.05	Closing the Conference	

Posters

1	Alekseeva E.S., Rassadin A.E.	Remark on representation of Hamiltonian systems as curves in denumerable-dimensional space.
2	Bakhanova Yu.V., Kazakov A.O., Malykh S.M.	Homoclinic chaos in the Rossler model
3	Barabash N.V., Belykh V.N.	Hyperbolic attractors of non-autonomous maps
4	Bobrovskiy A., Kazakov A., Stankevich N.	Occurrence of a burst in-phase attractor in two coupled Hindmarsh-Rose systems
5	Bolotov D.I., Bolotov M.I., Smirnov L.A., Osipov G.V., Pikovsky A.	Solitary chimera in the medium of phase oscillators with diffusion of the auxiliary field
6	Bolotov M.I., Levanova T.A., Smirnov L.A., Pikovsky A.	Stability of synchronous rotations to the degree of disorder in the lattices of locally coupled phase oscillators
7	Chigarev V.	Kantorovich-Rubinstein-Wasserstein distance between attractor and repeller
8	Gonchenko A., Samylina E.	On systems with symmetric Lorenz attractor and Lorenz repeller
9	Gonchenko M., Safonov K.	Reversible perturbations of conservative Henon-like maps
10	Gonchenko S., Gordeeva O.	On two-dimensional diffeomorphisms with a transversal homoclinic trajectory to a non-hyperbolic saddle
11	Kaynov M., Kazakov A.	On methods of checking pseudohyperbolicity of strange attractors
12	Krylosova D., Seleznev E., Stankevich N.	Chaotic dynamics and drift in an oscillator with an adaptive external influence
13	Lerman L.M., Kulagin N.E.	Resonant localized patterns in the Swift-Hohenberg equation
14	Munyaev V.O., Khorkin D.S., Bolotov M. I., Smirnov L. A., Osipov G.V.	Appearance of chaos in evolving pendulum network
15	Munyaev V.O., Smirnov L.A., Kostin V.A., Osipov G.V., Pikovsky A.	Stationary and periodic regimes in the noisy Kuramoto system with a bimodal frequency distribution
16	Safonov K., Zelentsov N.	Conservative symmetry breaking bifurcation in the double Henon map
17	Zinina S.	Dynamics of systems with a finite hyperbolic chain-recurrent set

