***January 3 (Thursday)***

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| --- | --- | --- | --- | --- | --- |
| Time | Speaker | | Topic of report | | Room |
| **9.00-10.00** | Registration (first floor hall) | | | | |
| **10.00-10.15** | Opening | | | | |
| **Chairman** | **Grines Vyacheslav** | | | | |
| **10.20-11.20** | **Polotovskiy Grigory** (Russia) | | *Essay on the history of mathematics in Nizhny Novgorod* | | 125 |
| **11.20-11.45** | Coffee break (dining room) | | | | |
| **11.45-12.25** | **Bonatti Christian** (France) | | *Partially hyperbolic diffeomorphisms on*  *3-manifolds.* | | 125 |
| **12.30-13.10** | **Bufetov Alexander** (France) | | *Interpolation for determinantal point processes* | | 125 |
| **13.10-14.10** | Lunch | | | | |
| **14.10-14.50** | **Berger Pierre** (France) | | *Emergence of non-ergodic dynamics* | | 125 |
| **14.55-15.35** | **Álvarez López Jesús Antonio** (Spain) | | *Realization of manifolds as leaves of compact foliated spaces using graph colorings* | | 125 |
| **15.35-16.00** | Coffee break (dining room) | | | | |
| Sections | | | | | |
|  | Topological Methods in Dynamics  (room 125) | Bifurcations and Chaos  (room 302) | | Geometry and Topology of Foliations  (room 126) | |
| **Chairman** | **Zhuzhoma Eugeny** | **Gonchenko Sergey** | | **Maksimenko Sergey** | |
| **16.00-16.30** | **Vago Gioia** (France)  *The Ogasa Number* | **Söderbacka Gunnar** (Finland)  *Chaos and bifurcations in a system for predators competing for one prey* | | **Jung Seoung Dal** (Korea)  *Liouville type theorems for transversally harmonic map* | |
| **16.35-17.05** | **Matheus Carlos** (France)  *Symbolic dynamics for billiards* | **Beklaryan Armen** (Russia)  *Periodic and bounded solutions, and bifurcations of functional-differential equations of pointwise type* | | **Bolotov Dmitry** (Ukraine)  *Geometry of polynomial growth foliations*  *with finite topology of leaves on 3-manifolds* | |
| **17.05-17.30** | Coffee break (dining room) | | | | |
| **17.30-18.00** | **Kryzhevich Sergey** (Russia)  *Controllability, closing lemma and transitivity for dynamical systems on Euclidean spaces* | **Shilin Ivan** (Russia)  *Sparkling saddle loops of vector fields on surfaces* | | **Kordyukov Yuri** (Russia)  *Laplacians on generalized smooth distributions* | |
| **18.05-18.35** | **Efremova Lyudmila** (Russia)  *Ω-Stability of C1-Smooth Skew Products of Interval*  *Maps and Dense Stability as a Whole of a Family of Fibres Maps* | **Glyzin Sergey** (Russia)  *Motion Separation in a Neighborhood of a Semistable Cycle* | | **Zhukova Nina** (Russia)  *On attractors of foliations with transverse linear connections* | |
| **18.40-20.00** | Furshet and jazz concert (dining room) | | | | |

***January 4 (Friday)***

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| Time | Speaker | | | Topic of report | | | | Room |
| **Chairman:** **Gurevich Elena** | | | | | | | | |
| **9.30-10.10** | **Zhuzhoma Eugeny** (Russia) | | | *A.A. Andronov and some aspects of dynamical systems* | | | | 125 |
| **10.15-10.55** | **Lerman Lev** (Russia) | | | *E.A. Leontovich-Andronova: bifurcations and classification of systems on the plane* | | | | 125 |
| **10.55- 11.20** | Coffee break (dining room) | | | | | | | |
| **11.20-12.00** | **Laudenbach Francois** (France) | | | *Homoclinic Bifurcation in Morse-Novikov Theory* | | | | 125 |
| **12.05-12.45** | **Ilyashenko Yuly** (Russia) | | | *First steps of the global bifurcation theory in the plane* | | | | 125 |
| **12.45-13.35** | Lunch | | | | | | | |
| Sections | | | | | | | | |
|  | Topological Methods in Dynamics  (room 125) | | Bifurcations and Chaos  (room 302) | | | Geometry and Topology of Foliations  (room 126) | Algebra and Analysis  (room 314) | |
| **Chairman** | **Kurenkov Eugeny** | | **Kazakov Alexey** | | | **Zhukova Nina** | **Remizov Ivan** | |
| **13.35-14.05** | **Davydov Alexey** (Russia) | | **Inoy Hiroyuki** (Japan)  *Topological aspects of the tricorn* | | | **Lukina Olga** (USA)  *Arboreal Cantor actions* | **Kuznetsov Michael** (Russia)  *Deformations of Lie algebras* | |
| 14.10-14.40 | **Miftakhov Azat**  (Russia)  *Differential properties of semigroups and estimates of distances between stationary distributions of diffusion processes* | | **Malkin Mikhail,**  **Klim Safonov**  (Russia)  *Non-monotonicity of the kneading invariant for Lorenz maps with infinite derivatives* | | | **Maksymenko Sergiy** (Ukrain)  *Diffeomorphisms groups of foliations with Morse-Bott singularities* | **Askerova Aisel,**  **Stolbova Valeriya**  (Russia)  *How many ways are there to tile a rectangle with polyominoes?* | |
| **14.40-14.55** | Coffee break (dining room) | | | | | | | |
| **14.55-15.25** | **Zhirov Alexey** (Russia)  *Topological conjugacy of pseudo-anosov homeomorphisms with marked points* | **Gonchenko Marina** (Spain)  *On new type of 1:4 resonance in the conservative cubic H'enon maps* | | | **Akhmet'ev Petr** (Russia)  *A remark on the Mahowald's elements in stable homotopy groups of spheres* | | **Sakbaev Vsevolod** (Russia)  *Averaging of the flows of random maps and nonlinear Schrodinger equation* | |
| **15.30-15.50** | **Sokolov Sergey** (Russia)  *Bifurcation Analysis of the Dynamics of Two Vortices* | **Sidorenko Vladislav** (Russia)  *On a class of motion of an axisymmetric satellite in a gravitational field* | | | **Vyugin Ilya** (Russia)  *Difference Equations and Vector Bundles* | | **Kachurovskii Alexander** (Russia)  *Fejer sums and the von Neumann ergodic theorem* | |
| **15.55-16.15** | **Ryabov Pavel** (Russia)  *Bifurcation diagram of one perturbed vortex dynamics problem* | **Gonchenko Alexander,**  **Самылина Евгения**  (Russia)  *Examples of discrete Lorenz attractors in three-dimensional maps* | | | **Kaveh Eftekharinasab** (Ukraine)  *A Global Diffeomorphism Theorem for* Fréchet *spaces* | | **Volkov Boris**  (Russia)  *Levy Laplacian and gauge fields* | |
| **16.15-16.30** | Coffee break (dining room) | | | | | | | |
| **Chairman** | **Klimenko Alexey** | **Glyzin Sergey** | | | **Kordyukov Yury** | | **Chebochko Nataliya** | |
| **16.30-16.50** | **Zubov Dmitry** (Russia)  *Finitely additive measures on the invariant foliations of Anosov diffeomorphisms* | **Ivanov Alexey** (Russia)  *Multibump trajectories of periodic Lagrangian systems with pitchfork bifurcations* | | | **Malyugina Alexandra** (Russia)  *Holonomy pseudogroup of a manifold over the algebra* | | **Jacquemard Alain** (France)  TBA | |
| **16.50-17.10** | **Khudoyor Mamayusupov** (Russia)  *A parameter space of cubic Newton maps with parabolics* | **Kruglov Vyacheslav** (Russia)  *Implementation of Smale-Williams Solenoids with different expansion factors* | | | **Meshcheryakov Michail** (Russia)  *Upper bounds of Morse numbers of the matrix elements irreducible representations of simple compact connected Lie groups* | | **Galkin Oleg** (Russia)  *Usage of extreme subarguments and epiarguments for finding of global extrema* | |
| **17.10-17.30** | **Romanetz Ilya** (Russia)  *Topological approach to the monitoring of transition states in cardiodynamics* | **Gordeeva Olga** (Russia)  *On bifurcations of a 3-parameter family of two-dimensional diffeomorphisms with a quadratic homoclinic tangency to a nonhyperbolic saddle at µ=0* | | | **Kirillov Ilia** (Russia)  *Coadjoint orbits of symplectic diffeomorphisms of surfaces with boundary* | | **Alhussein Hassan** (Russia)  *Hochschild cohomology via Morse mathching and Anick resolution* | |
| **17.30-17.45** | Coffee break (dining room) | | | | | | | |
| **18.30-20.30** | Concert of classical music in the Rukavishnikov estate | | | | | | | |

***January 5 (Saturday)***

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| Time | Speaker | Topic of report | Room |
| **Chairman:** **Bufetov Alexandr** | | | |
| **9.30-10.10** | **Grines Vyacheslav** (Russia) | *On works of A.G. Maier on dynamical systems on surfaces* | 125 |
| **10.15-10.55** | **Gonchenko Sergey** (Russia) | *Scientific Heritage of L.P. Shilnikov* | 125 |
| **10.55-11.20** | Coffee break (dining room) | | |
| **11.20-11.50** | **Zastrow Andreas** (Poland) | *The period-set of a map from the Cantor-Set to itself* | 125 |
| **11.55-12.25** | **Antonyan Sergey** (Mexico) | *Gromov-Hausdorff hyperspaces of* | 125 |
| **12.30-13.30** | Lunch | | |
| **13.30-14.00** | **Babenko Ivan** (France) | *On topological properties of the volume entropy of geodesic flows* | 125 |
| **14.05-14.35** | **Shekutkovski Nikita**  (Republic of Macedonia) | *Shape and strong shape of limit sets in dynamical systems* | 125 |
| **14.35-15.00** | Coffee break (dining room) | | |
| **15.00-16.00** | Poster session | | |
| **16.00-19.00** | Excursion in Nizhny Novgorod | | |
| **19.00** | Banquet. Restaurant "At Alexander" | | |

***January 6 (Sunday)***

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| Time | Speaker | Topic of report | Room |
| **Chairman** | **Pochinka Olga** | | |
| **10.00-10.40** | **Oprocha Piotr** (Poland) | *On minimal non-invertible maps* | 125 |
| **10.45-11.25** | **Timorin Vladlen** (Russia) | *Dynamical generation of parameter laminations* | 125 |
| **11.25-11.50** | Coffee break (dining room) | | |
| **11.50-12.20** | **Zinsmeister Michel** (France) | *Phase Transition for deterministic Loewner Processes* | 125 |
| **12.25-12.45** | **Komech Sergey**  **Gurevich Boris** (Russia) | *Random Averaging in Ergodic Theorem and Boundary Deformation Rate in Symbolic Dynamics* | 125 |
| **12.50-13.10** | **Klimenko Alexey** (Russia) | *Convergence of Spherical Averages for Actions of Fuchsian Groups* | 125 |
| **13.15-15.00** | Closing of the conference. Furshet (dining room) | | |

**Poster session**

1. Alekseeva Elena, Rassadin Alexander. «Convexity and its Applications in the Theory of Two-dimensional Dynamical Systems».
2. Aleksandrov N.M., Askerova A.A., Dzhuraev A.A., Kaniber V.V., Kruzhkov D.O., Raeva A.A., Stolbova V.A. «On strategies of discrete time evolution of tree on square lattice».
3. Bakhanova Yuliya. «Spiral attractors as the root of a new type of ``bursting activity'' in the Rosenzweig-MacArthur model».
4. Barabash Nikita. «Lorenz-type attractor in a piecewise smooth system: rigorous results».
5. Dolgonosova Anna. «On holonomy groupoids of pseudo-riemannian foliations».
6. Efimov Sergey. «Phase space topology and emergence of chaos in first-order mean motion resonances».
7. Herega Alexander. «Self-organized Criticality in the Theory of the Nearest Neighborhood of Elements of Percolation Systems».
8. Isaenkova Natalya. «On bifurcation between different types of solenoidal basic sets».
9. Khoulé Cheikh. «Deformation of codimension 1 foliations into contact structure».
10. Konopleva Irina. «Mathematical model of the crisis in educational systems».
11. Korotkov A. «Chaotic Neuron-Like Activity in the Ensemble of Fitzhugh-Nagumo Elements with Weak Excitatory Couplings».
12. Kostromina Olga. «Asymmetric Quasi-periodic Perturbations».
13. Kruglov Vladislav. «On Moduli for Gradient Surface Height Function Flows».
14. Levanova Tatiana. «The dynamics of ensemble of neuron-like elements with excitatory couplings».
15. Morozov Andrey. «On Morse-Smale diffeomorphisms with orientable heteroclinic on surfaces».
16. Pavlova Daria. «On embedding of invariant manifolds of the simplest Morse-Smale flows with heteroclinical intersections».
17. Preobrazhenskaia Margarita. «A Buffer Phenomenon in a System of Two Non-Linearly Coupled Relaxation Oscillators».
18. Roitenberg Vladimir. «On two-parameter perturbations of the harmonic oscillator equation».
19. Ryazanova Olga. «Estimates for a surface of a given topological type with a given mean curvature».
20. Trifonov Konstantin. «On partially hyperbolic symplectic automorphisms of a 4-dimensional torus generated by integer unitary symplectic matricies».
21. Shadrin Artemiy. «On Modeling of one unstable bifurcation in the dynamics of vortex structures».