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Russian Academy of Sciences,
Russian Foundation for Basic Research, Grant No. 14-01-20074,
Peoples' Friendship University of Russia,
DAAD via the German-Russian Interdisciplinary Science Center

**The Seventh International Conference
on Differential and Functional Differential Equations
Moscow, Russia, August 22–29, 2014**

Satellite Conference of the International Congress of Mathematicians 2014,
August 13–21, Coex, Seoul, Korea

**International Workshop
“Spatio-temporal dynamical systems”
Moscow, Russia, August 26–28, 2014**

PROGRAM



Peoples' Friendship University of Russia
Steklov Mathematical Institute of the RAS
Lomonosov Moscow State University

**The Seventh International Conference
on Differential and Functional Differential Equations**
International Workshop
“Spatio-temporal dynamical systems”

Program Committee:

D. V. Anosov (Co-chairman), S. Bianchini, V. M. Buchstaber, I. Capuzzo Dolcetta, G.-Q. Chen, S. Yu. Dobrokhotov, B. Fiedler, H. Ishii, V. A. Il'in, W. Jäger, S. I. Pohozaev, A. L. Skubachevskii (Co-chairman), I. A. Taimanov, L. Veron, H.-O. Walther.

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List of 45-minute Invited Lecturers:

O. N. Ageev, C. Bandle, C. Bardos, J. Batt, H. G. Bock, V. M. Buchstaber, I. Capuzzo Dolcetta, A. A. Davydov, M. del Pino, S. Yu. Dobrokhotov, Yu. A. Dubinskii, A. V. Fursikov, R. V. Gamkrelidze, H. Ishii, W. Jäger, V. Yu. Kaloshin, E. Ya. Khruslov, A. Kozhevnikov, V. V. Kozlov, S. B. Kuksin, A. Neishtadt, S. P. Novikov, P. I. Plotnikov, A. G. Sergeev, M. B. Sevryuk, I. Shafrir, A. E. Shishkov, V. D. Stepanov, T. A. Suslina, I. A. Taimanov, A. Tesei, D. V. Treschev, L. Veron, H.-O. Walther, J. Wei.

Saturday, August 23

9:00–11:00 **Registration**

Conference Hall, 2nd Floor

Coffee break

11:00–11:45 **Opening ceremony**

11:45–12:30 S. P. Novikov, “Singular solutions and spectral theory”

12:40–13:25 J. Wei, “Classification and analysis of $SU(n+1)$ Toda system”

Lunch

15:05–15:50 R. V. Gamkrelidze, “Dual formulation of the Pontryagin maximum principle (PMP)”

16:00–16:45 V. M. Buchstaber, E. Yu. Netay, “Differential-algebraic solutions of the heat equation”

16:55–17:40 E. Ya. Khruslov, “Periodic Maxwell’s operators with preassigned gaps in spectrum”

17:50–18:35 *Lecture postponed*

18:45–19:15 E. Yu. Panov, “On decay of almost periodic entropy solutions to multidimensional scalar conservation laws”

19:30–22:00 **Reception**

Auditorium 225, 2nd Floor

17:50–18:35 Yu. A. Dubinskii, “On some problems for the Poisson and Stokes system of equations”

18:45–19:15 M.-F. Bidaut-Veron, “A priori estimates and initial trace for Hamilton–Jacobi equation with gradient absorption terms”

19:30–22:00 **Reception**

Auditorium 325, 3^d Floor

- 17:50–18:35 A. V. Fursikov, “Structure of dynamical flow and nonlocal feedback stabilization for normal parabolic equations”
- 18:45–19:15 V. P. Burskii, “On expansions of differential operators in Banach spaces”
- 19:30–22:00 **Reception**

Auditorium 415, 4th Floor

- 17:50–18:35 A. I. Neishtadt, A. V. Artemyev, L. M. Zelenyi, “On geometrical mechanism of destruction of adiabatic invariance in slow-fast Hamiltonian systems”
- 18:45–19:15 G. A. Chechkin, T. S. Ratiu, M. S. Romanov, V. N. Samokhin, “Existence and uniqueness theorems for the full three-dimensional Ericksen–Leslie system”
- 19:30–22:00 **Reception**

Auditorium 417, 4th Floor

- 17:50–18:35 S. Yu. Dobrokhotov, “Functions of noncommuting operators, adiabatic approximation in homogenization problems, and applications”
- 18:45–19:15 A. V. Kim, “On the Pontryagin maximum principle for systems with aftereffect”
- 19:30–22:00 **Reception**

Auditorium 514, 5th Floor

- 17:50–18:35 A. E. Shishkov, “Very singular and large solutions of semi-linear parabolic and elliptic equations with degenerate absorption potential”
- 18:45–19:15 D. Shoikhet, “Numerical range of holomorphic mappings in geometric function theory”
- 19:30–22:00 **Reception**

Sunday, August 24

Conference Hall, 2nd Floor

- 10:00–10:45 A. Tesei, “Pseudo-parabolic regularization of forward-backward parabolic equations”
10:55–11:40 I. A. Taimanov, “Mutar transformations for two-dimensional differential operators”

Coffee break

- 12:10–12:55 M. B. Sevryuk, “The classical KAM theory in the last decade: a slow progress”
13:05–13:50 A. G. Sergeev, “Harmonic spheres and Yang–Mills fields”

Lunch

Section is dedicated to the memory of Prof. S. I. Pohozaev

- 15:30–16:00 A. I. Nazarov, “The Brezis–Nirenberg effect for fractional Laplacians”
16:05–16:35 R. Musina, “Two fractional Laplacians”
16:40–17:10 Ya. Ilyasov, “Pohozaev’s identity and compact supported solutions”

Coffee break

- 17:35–17:55 E. I. Galakhov, O. A. Salieva, “Nonexistence of monotone positive solutions to a quasilinear elliptic inequality in a half-space”
18:00–18:20 J. Davila, “Fractional minimal surfaces”
18:25–18:45 I. Guerra, “Solutions for a semilinear elliptic equation in dimension two with supercritical growth”
18:50–19:10 B. B. Tsegaw, “Some nonexistence results for anisotropic elliptic and backward parabolic inequalities”

Auditorium 225, 2nd Floor

- 15:30–16:00 N. M. Ivochkina, “On attractors of m -Hessian evolutions”
16:05–16:35 A. P. Soldatov, “The Carleman problem for second-order elliptic systems on a plane”
16:40–17:10 D. I. Borisov, “On the uniform resolvent convergence in theory of boundary homogenization”

Coffee break

- 17:35–17:55 V. B. Vasilyev, “On general boundary value problems for pseudodifferential equations in a cone”
18:00–18:20 R. S. Saks, “Properties of the operators «curl» and «gradient of divergence» in Sobolev spaces”
18:25–18:45 T. M. Akhunov, “Hypoellipticity for a new class of infinitely degenerate elliptic operators”
18:50–19:10 N. N. Senik, “On homogenization for periodic elliptic second-order differential operators in a strip”

Auditorium 325, 3^d Floor

- 15:30–16:00 P. G. Grinevich, P. M. Santini, D. Wu, “The inverse scattering transform for the vector fields and the Cauchy problem for the Pavlov equation: the small norm case”
16:05–16:35 G. A. Kurina, “Comparison of two methods for solving inverse problems of the calculus of variations”
16:40–17:10 V. G. Zadorozhny, “Hamiltonian form of some partial differential equations”

Coffee break

- 17:35–17:55 S. Modena, S. Bianchini, “Quadratic Glimm functional for general hyperbolic systems of conservation laws”
18:00–18:20 V. Zh. Sakbaev, “On the averaging of random semigroups and their generators by using the Chernoff theorem”
18:25–18:45 Kh. G. Umarov, “Cauchy problem for the Cahn–Hilliard equation with a viscosity in the space of uniformly continuous bounded functions”

Auditorium 415, 4th Floor

- 15:30–16:00 L. A. Kalyakin, “Stability of autoresonance under persistent perturbation by white noise”
- 16:05–16:35 S. N. Askhabov, “Integral equations of convolution type with monotone nonlinearity”
- 16:40–17:10 D. V. Artamonov, V. A. Golubeva, “ W -algebras and higher analogs of the Kniznik–Zamolodchikov equations”

Coffee break

- 17:35–17:55 V. B. Cherepennikov, “A numerical-analytic method for investigation of some linear functional differential equations”
- 18:00–18:20 S. M. Chuyko, “Noeter boundary-value problems for matrix equations”
- 18:25–18:45 *Lecture is rearranged to Conference Hall*
- 18:50–19:10 Ya. A. Sharifov, “Two-Point boundary value problem for systems of impulsive differential equations of fractional order”

Auditorium 417, 4th Floor

- 15:30–16:00 D. E. Apushkinskaya, “On regularity properties of solutions to hysteresis-type problems”
- 16:05–16:35 A. V. Faminskii, M. A. Opritova, “On properties of solutions to Kawahara equation”
- 16:40–17:10 E. P. Belan, “Metastable patterns in solutions of Chafee–Infante’s problem”

Coffee break

- 17:35–17:55 A. Minakov, “Riemann–Hilbert problem to the Camassa–Holm equation: long-time dynamics of step-like initial data”
- 18:00–18:20 A. P. Antonova, “On interior regularity of solutions to Zakharov–Kuznetsov equation”

Auditorium 514, 5th Floor

- 15:30–16:00 **A. A. Amosov**, “On solvability of the problem of radiation-conducted heat exchange in a system of semitransparent bodies”
- 16:05–16:35 **A. N. Bogolyubov, Yu. V. Mukhartova, N. A. Bogolyubov**, “The spectral problem in the waveguide with bi-isotropic filling”
- 16:40–17:10 **A. D. Yunakovsky**, “Searching for mode propagating in helical waveguides”

Coffee break

- 17:35–17:55 **A. V. Razgulin, T. E. Romanenko, S. D. Pavlov**, “On suppression of distortions in nonlocal models of adaptive optics”
- 18:00–18:20 **Ya. L. Bogomolov, M. A. Borodov, A. D. Yunakovsky**, “Method of discrete sources as an efficient solver for scattering of electromagnetic waves in domains with sharp corners”
- 18:25–18:45 **V. G. Danilov, R. K. Gaidukov**, “Asymptotic solution of the problem on the flow of a liquid in a two-dimensional channel with small periodic irregularities on walls”

Monday, August 25

Conference Hall, 2nd Floor

10:00–10:45 V. V. Kozlov, “Conservation laws of generalized billiards that are polynomial in momenta”

10:55–11:40 P. I. Plotnikov, W. Weigant, “Boundary value problems for compressible Navier–Stokes equations”

Coffee break

12:10–12:55 D. V. Treschev, “Separatrix map and Hamiltonian dynamics”

13:05–13:50 O. N. Ageev, “Extensions of typical group actions”

Lunch

Section is dedicated to the memory of Prof. D. V. Anosov

15:30–16:00 M. L. Blank, “Ergodic properties of a chaotic collective walk governed by Anosov maps”

16:05–16:35 P. Oprocha, “Inverse limits and chaotic attractors”

16:40–17:10 V. P. Leksin, “Linear reduction of Schlesinger equations and their solutions”

Coffee break

17:35–17:55 A. V. Klimenko, “Asymptotic properties of Arnold tongues and Josephson effect”

18:00–18:20 I. V. Vyugin, “On the continuous limit for systems of difference equations”

18:25–18:45 L. S. Efremova, “On the complexity of skew products of maps of an interval”

18:50–19:10 S. S. Belmesova, “On dynamics of the trace map”

Auditorium 225, 2nd Floor

- 15:30–16:00 **M. Musso**, “Nondegeneracy of nonradial nodal solutions to Yamabe problem”
16:05–16:35 *Lecture cancelled*
16:40–17:10 **V.A. Kozlov, J. Thim**, “Hadamard type asymptotics for eigenvalues of the Neumann problem for elliptic operators”

Coffee break

- 17:35–17:55 **M. Fazly**, “Classification of solutions for elliptic PDEs”
18:00–18:20 **M. Denche**, “Maximal regular boundary value problems for second order abstract elliptic differential equations in UMD Banach spaces”
18:25–18:45 **N.A. Gusev**, “On the chain rule for the divergence operator in $\mathbb{R}^2$ ”
18:50–19:10 **A.Yu. Trynin**, “On inverse nodal problem for Sturm–Liouville problem”

Auditorium 325, 3^d Floor

- 15:30–16:00 **V.G. Zvyagin**, “Attractors and pullback-attractors of hydrodynamic equations”
16:05–16:35 **A.V. Podolskii, T.A. Shaposhnikova**, “Homogenization of the initial-boundary value problem in perforated domain for parabolic equation with p -Laplace operator and nonlinear Robin-type boundary conditions”
16:40–17:10 **V.N. Denisov**, “On destabilization of solutions of parabolic equations”

Coffee break

- 17:35–17:55 **Ju.M. Meshkova**, “Homogenization of parabolic systems with periodic coefficients in a bounded domain”
18:00–18:20 *Lecture rearranged*
18:25–18:45 **A.V. Zvyagin**, “Solvability of the thermo-viscoelastic Voigt model”
18:50–19:10 **S.A. Sergeev**, “Asymptotic solution of linear system of differential equations for the water waves in a basin with fast oscillating bottom”

Auditorium 415, 4th Floor

- 15:30–16:00 **S. Kamvyssis**, “Nonlinear stationary phase and asymptotic stability of the Toda lattice”
- 16:05–16:35 **M. M. Lavrentiev, R. Spigler**, “Existence, uniqueness, and regularity for the Kuramoto–Sakaguchi equation with unboundedly supported frequency distribution”
- 16:40–17:10 **M. V. Korobkov**, “The Liouville theorem for the steady Navier–Stokes problem in axially symmetric 3D spatial case”

Coffee break

- 17:35–17:55 **L. Rossi**, “Transition fronts for the Fisher–KPP equation”
- 18:00–18:20 **A. V. Koptev**, “Solution of main hydromechanics equations”
- 18:25–18:45 **A. Yaakbarieh**, “On the correct solvability of parabolic functional differential equations with deviation of time argument”

Auditorium 417, 4th Floor

- 15:30–16:00 **A. G. Baskakov**, “Harmonic and spectral analysis of operators with bounded degrees and bounded semigroups of operators”
- 16:05–16:35 **V. G. Kurbatov, I. V. Kurbatova**, “Krylov-based methods for approximate solving of differential equations and functional calculus”
- 16:40–17:10 **E. A. Baderko, M. F. Cherepova**, “Solution of the first initial-boundary value problem for parabolic systems in plain nonsmooth domains”

Coffee break

- 17:35–17:55 **A. M. Selitskii**, “Maximal regularity of parabolic problems with operator satisfying the Kato conjecture”
- 18:00–18:20 **N. V. Artamonov**, “Estimate of the decay exponent of an operator semigroup associated with a second-order linear differential equation”
- 18:25–18:45 **A. S. Poretskii**, “On the threshold behavior of waveguide scattering matrices”
- 18:50–19:10 **V. B. Didenko**, “Reversibility states of linear differential operators with periodic unbounded operator coefficients”

Auditorium 514, 5th Floor

- 15:30–16:00 **A. V. Bobylev**, “Boltzmann equation and hydrodynamics at the Burnett level”
16:05–16:35 *Lecture cancelled*
16:40–17:10 **S. Z. Adzhiev, V. V. Vedenyapin**, “Entropy in the Boltzmann and Poincaré senses”

Coffee break

- 17:35–17:55 **E. A. Kopylova**, “Asymptotic stability of solitons for nonlinear hyperbolic equations”
18:00–18:20 **M. I. Katsnelson, V. E. Nazaikinskii**, “Spectral flow of families of Dirac operators, index theorem, and creation of electron-hole pairs in graphene”
18:25–18:45 **A. E. Merzon**, “Justification of Sobolev’s and Keller–Blank’s formulas in scattering by wedges”
18:50–19:10 *Lecture postponed*

Tuesday, August 26

Conference Hall, 2nd Floor

- 10:00–10:45 M. del Pino, “Variations on the Bombieri–de Giorgi–Giusti minimal graph”
10:55–11:40 H. Ishii, “Metastability for parabolic equations with drift”

Coffee break

- 12:10–12:55 I. Capuzzo Dolcetta, “A few new results on fully nonlinear degenerate elliptic equations”
13:05–13:50 W. Jäger, “Systems of functional-differential equations modelling the dynamics of structured populations — modelling, analysis and applications”

Lunch

International Workshop “Spatio-temporal dynamical systems”

- 15:25–15:30 J. Achterberg, “The German Research Foundation (DFG)”
15:30–15:45 E. Rühl, N. Kolanovska, “The center of excellence G-RISC”
15:45–16:15 E. Rühl, “Uptake and transport of nanoparticles and drugs in biological matter”
16:25–16:55 A. L. Skubachevskii, “Nonlocal elliptic problems and applications to Vlasov–Poisson equations”
17:00–17:30 S. Siegmund, “A new notion of entropy which is local in time and space”
17:35–17:55 L. G. Shagalova, “Application of the method of characteristics to construct generalized solutions of the Hamilton–Jacobi equation with state constraints”
18:00–18:20 D. A. Neverova, “Regularity of solutions to the second (third) boundary-value problem for differential-difference equations”
18:25–18:45 *Lecture cancelled*
19:00–22:00 **Banquet**

Auditorium 225, 2nd Floor

International Workshop “Spatio-temporal dynamical systems”

- 15:30–16:15 B. Lani-Wayda, H.-O. Walther, “Shilnikov phenomenon due to variable delay, by means of the fixed point index”
- 16:25–16:55 G.A. Leonov, T.A. Alexeeva, N.A. Korzhemanova, D.V. Kusakin, N.V. Kuznetsov, T.N. Mokaev, “Lyapunov functions in dimension estimates of attractors of dynamical systems”
- 17:00–17:30 L.A. Bordag, D. Zhelezov, I.P. Yamshchikov, “Portfolio optimization in the case of an asset with a given liquidation time distribution”
- 17:35–17:55 G. Kriwet, E. Kostina, “Model validation and optimum experimental design of partial differential equations”
- 18:00–18:20 S. Patrizi, “On a long range segregation problem”
- 18:25–18:45 A.V. Kruk, V. Reitmann, “Upper Hausdorff dimension estimates for invariant sets of evolutionary variational inequalities”
- 19:00–22:00 **Banquet**

Auditorium 325, 3^d Floor

- 15:30–16:15 **A. A. Davydov**, “Optimal stationary cyclic utilization of renewable resources”
- 16:25–16:55 **A. Vitolo**, “Comparison principles for degenerate elliptic operators with applications to removable singularities”
- 17:00–17:30 **I. Birindelli**, “Fully nonlinear PDE: a new interpretation of the Dirichlet principal eigenvalue”
- 17:35–17:55 **M. I. Kamenskii**, “On one method of research of stability of the semigroups generated by operators with delay”
- 18:00–18:20 **F. Leoni**, “Fully nonlinear elliptic differential inequalities in unbounded domains”
- 18:25–18:45 **E. A. Kalita**, “Power-logarithmic solutions for nonlinear elliptic systems”
- 19:00–22:00 **Banquet**

Auditorium 415, 4th Floor

- 15:30–16:15 **A. Kozhevnikov**, “On multi-weighted parabolic initial boundary-value problems”
- 16:25–16:55 **Ya. I. Belopolskaya**, “Probabilistic interpretations of solutions to the Cauchy problem for systems of nonlinear parabolic equations”
- 17:00–17:30 **V. I. Korzyuk**, **I. S. Kozlovskaya**, **I. I. Stolyarchuk**, “Classic solutions of boundary-value problems for hyperbolic equations obtained by the characteristics method”
- 17:35–17:55 **Ya. A. Butko**, “Approximation of Feller semigroups via Feynman formulae”
- 18:00–18:20 **E. M. H. Numan**, “Feynman’s formulas and averaging semigroups”
- 18:25–18:45 **N. Hamamuki**, “An improved level set method for Hamilton–Jacobi equations”
- 19:00–22:00 **Banquet**

Auditorium 417, 4th Floor

- 15:30–16:15 V. D. Stepanov, “Embedding inequality and duality principle in weighted Sobolev spaces on the semiaxis”
- 16:25–16:55 Ya. M. Dymarskii, Yu. Evtushenko, “Submanifolds of family of periodic eigenvalue problems”
- 17:00–17:30 T. N. Fomenko, “New results in the theory of discrete search for solutions of equations and inclusions in metric spaces”
- 17:35–17:55 A. M. Savchuk, I. V. Sadovnichaya, “On asymptotic formulas for eigenvalues and eigenfunctions of the Dirac system”
- 18:00–18:20 N. M. Ratiner, “On the solvability of operator equations with nonlinear Fredholm maps of positive index”
- 18:25–18:45 D. M. Polyakov, “Spectral properties of nonself-adjoint differential operator of fourth order”
- 19:00–22:00 **Banquet**

Auditorium 514, 5th Floor

- 15:30–16:15 T. A. Suslina, “Operator error estimates for homogenization of elliptic systems with periodic coefficients”
- 16:25–16:55 A. M. Denisov, “Inverse problem for quasi linear system of partial differential equations with nonlocal boundary condition containing delay argument”
- 17:00–17:30 A. B. Muravnik, “Singular solutions of strongly elliptic differential-difference equations in half-plane”
- 17:35–17:55 O. V. Solonukha, “On pseudomonotone property for differential-difference operators in elliptic equations of variational type”
- 18:00–18:20 A. E. Zernov, I. V. Kelyukh, “On solutions of hybrid systems of functional differential equations”
- 18:25–18:45 A. E. Zernov, “Singular functional differential equations: solvability, number of solutions, and asymptotics of solutions”
- 19:00–22:00 **Banquet**

Wednesday, August 27

Conference Hall, 2nd Floor

- 10:00–10:45 J. Batt, “Stationary solutions of the Vlasov–Poisson system: methods of construction and new results”
10:55–11:40 L. Veron, “Quasilinear Lane–Emden equations with measures data”

Coffee break

- 12:10–12:55 C. Bandle, “Semi-linear elliptic equations in spaces of constant curvature”
13:05–13:50 C. Bardos, N. Besse, “The Vlasov–Dirac–Benney equation at the cross road of spectral analysis and integrability”

Lunch

International Workshop “Spatio-temporal dynamical systems”

- 15:30–16:00 R. Lauterbach, “Equivariant bifurcation: Ize conjecture and dynamics”
16:05–16:35 Yu. A. Matveev, V. A. Vorontsov, A. M. Krainov, “Choosing the scheme-technical solutions for the descent spacecraft delivering the automatic planet rover”
16:40–17:00 E. A. Kostina, “Optimization methods for nonlinear model predictive control of non-stationary partial differential equations”

Coffee break

- 17:25–17:45 Y. Yang, T. Richter, M. Neuss-Radu, “Modeling and simulation of atherosclerotic plaque evolution in blood vessels”
17:50–18:10 A. V. Ivanyukhin, “Minimum-thrust problem as beginning of interplanetary low-thrust trajectories design”
18:15–18:35 S. Härting, “Dynamical spike solutions in a nonlocal model of pattern formation”
18:40–19:00 G. Kitavtsev, “Coarsening dynamics of droplets driven by thin-film type equations”

Auditorium 225, 2nd Floor

International Workshop “Spatio-temporal dynamical systems”

- 15:30–16:00 J. Merker, “On doubly nonlinear evolution equations of elliptic-parabolic-hyperbolic type”
16:05–16:35 P. L. Gurevich, “Discrete reaction-diffusion equations with hysteresis”
16:40–17:00 S. Daneri, “Dissipative Hölder solutions to the incompressible Euler equations”

Coffee break

- 17:25–17:45 O. Kirillov, F. Stefani, “Instabilities in rotational MHD flows: a comprehensive short-wavelength analysis”
17:50–18:10 M. Curran, “Reaction diffusion equations with hysteresis in higher spatial dimensions”
18:15–18:35 E. Ron, “Controlling the controller: hysteresis-delay differential equations”

Auditorium 325, 3^d Floor

- 15:30–16:00 V. V. Vlasov, “Spectral analysis of integro-differential equations in Hilbert space and its applications”
16:05–16:35 V. I. Maksimov, “On some problems of dynamical reconstruction and stable control for systems with retardation”
16:40–17:00 P. M. Simonov, “Stability of linear hybrid functional differential systems with aftereffect”

Coffee break

- 17:25–17:45 S. Fišnarová, “Oscillation criteria for ordinary and delay half-linear differential equations”
17:50–18:10 R. Marik, “Riccati equation method for second order neutral half-linear equations”
18:15–18:35 N. B. Zhuravlev, “Examples of computing the Floquet multipliers”
18:40–19:00 E. Bravyi, “On solvability of periodic problem for second-order functional differential equations”

Auditorium 417, 4th Floor

- 15:30–16:00 **A. V. Dmitruk**, “Maximum principle in the problem of optimal control with integral equations and phase and mixed constraints”
- 16:05–16:35 **N. D. Vvedenskaya**, “Nonlinear difference equations arising in problems of service networks”
- 16:40–17:00 **I. Mogilevsky**, “Local behavior of the electromagnetic field in the vicinity of the discontinuity line for dielectric permittivity”

Coffee break

- 17:25–17:45 **V. V. Zaitsev**, “Construction of comparison systems in the problem of estimating the integral funnel of a dynamical system”
- 17:50–18:10 **T. F. Mamedova, D. K. Egorova, E. V. Desyaev**, “About stability of economic system development”
- 18:15–18:35 **R. V. Shamin, A. I. Smirnova**, “Simulation of dynamic systems describing the rogue waves”
- 18:40–19:00 **V. L. Chernyshev, A. A. Tolchennikov**, “Number of Gaussian packages on some model decorated graphs”

Auditorium 514, 5th Floor

- 15:30–16:00 **S. I. Bezrodnykh, V. I. Vlasov**, “Effective method for harmonic mapping of complicated domains applicable to generation of calculation networks”
- 16:05–16:35 **A. V. Ankilov, P. A. Velmisov**, “Stablility of solutions of initial-boundary value problems of aerohydroelasticity”
- 16:40–17:00 **E. Alberdi Celaya**, “Changing the predictor of the extended and modified extended backward differentiation formula”

Coffee break

- 17:25–17:45 **A. Hidalgo**, “Numerical simulation of energy balance models in global climate applications”
- 17:50–18:10 **V. M. Ipatova**, “Convergence of uniform attractor of explicit spectral-difference scheme for double-layered quasigeostrophic model of general atmosphere circulation”
- 18:15–18:35 **L. Tello**, “On a nonlinear climate model with dynamic and diffusive boundary condition”

Thursday, August 28

Conference Hall, 2nd Floor

- 10:00–10:45 S. B. Kuksin, “Small oscillations in space-multidimensional Hamiltonian PDE”
10:55–11:40 I. Shafrir, “Asymptotic behavior of critical points of energy involving “circular-well” potential”

Coffee break

- 12:10–12:55 H. G. Bock, “Optimum experimental design for nonlinear dynamical models — mathematical basic research of high economic impact”
13:05–13:50 V. Yu. Kaloshin, “Quasiergodic hypothesis and Arnold diffusion in dimension 3 and 4”

Lunch

International Workshop “Spatio-temporal dynamical systems”

- 15:30–16:00 L. E. Rossovskii, A. A. Tovsultanov, “Continuous dependence of functional differential equations on the scaling parameter”
16:05–16:25 S. Tikhomirov, “Vector fields with shadowing properties corresponding to various classes of reparametrisations”
16:30–16:50 V. A. Popov, “Elliptic functional differential equations with variable coefficients and degeneration”
16:55–17:15 A. L. Tasevich, “Coerciveness conditions for the functional-differential equations with orthotropic contractions”
17:20–17:40 N. I. Vishnevskaya, “Investigation of Xu functions”
18:00–18:30 **Closing Ceremony**

Auditorium 225, 2nd Floor

- 15:30–16:00 S. Pinelas, “Oscillatory and nonoscillatory solutions for difference equations with several delays”
- 16:05–16:25 A. Yu. Savin, B. Yu. Sternin, “Differential equations on complex manifolds”
- 16:30–16:50 N. T. Gabdrahmanova, “On Sobolev problem for special submanifolds”
- 16:55–17:15 N. D. Bykova, “On the averaging principle applied to the logistic equation with rapidly oscillating retardation”
- 17:20–17:40 *Lecture cancelled*
- 18:00–18:30 **Closing Ceremony (Conference Hall, 2nd Floor)**

Auditorium 325, 3^d Floor

- 15:30–16:00 M. V. Babich, “Lie–Poisson geometry of flag manifolds defined by linear transformations of C^N ”
- 16:05–16:25 A. M. Shelekhov, E. A. Onoprienko, “On analytic solutions of equation $(x/y)(z \setminus x) = x((zy) \setminus x)$ ”
- 16:30–16:50 A. N. Kulikov, D. A. Kulikov, “Bifurcation problems for one model equation arising in the nanotechnology”
- 16:55–17:15 K. A. Darovskaya, “A priori estimate of solutions for a model nonlocal problem”
- 17:20–17:40 K. R. Dzhukashev, “On multidimensional solutions of equation $(xy)x = x(yx)$ with the universality property”
- 18:00–18:30 **Closing Ceremony (Conference Hall, 2nd Floor)**

Auditorium 415, 4th Floor

- 15:30–16:00 S. Kryzhevich, “A lemma on partial shadowing and its applications to non-hyperbolic dynamics”
- 16:05–16:25 *Lecture rearranged*
- 16:30–16:50 B. V. Loginov, Yu. B. Rousak, L. R. Kim-Tyan, “Differential equations with nonlinear by the unknown degenerated operator before the derivative”
- 16:55–17:15 B. Belaïdi, “Properties of meromorphic solutions of homogeneous and non-homogeneous higher-order linear differential equations”
- 17:20–17:40 I. S. Kashchenko, “Corporate dynamics of strongly connected distributed systems”
- 18:00–18:30 **Closing Ceremony (Conference Hall, 2nd Floor)**

Auditorium 417, 4th Floor

- 15:30–16:00 H. K. Awad, A. V. Glushak, “Abstract Euler–Poisson–Darboux equation with nonlocal condition”
- 16:05–16:25 *Lecture cancelled*
- 16:30–16:50 A. V. Parusnikova, “On Gevrey orders of power series solutions to third, fourth, and fifth Painlevé equations”
- 16:55–17:15 O. Sultanov, “Random perturbations in the problem of capture into autoresonance”
- 17:20–17:40 S. V. Kornev, “Method of directing functions in investigation of asymptotic behavior of solutions of differential inclusions”
- 18:00–18:30 **Closing Ceremony (Conference Hall, 2nd Floor)**

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