



RUDN University



Steklov  
Mathematical Institute



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Moscow State University



# The 8th International Conference on Differential and Functional Differential Equations

Moscow, Russia, August 13–20, 2017

## International Workshop “Differential Equations and Interdisciplinary Investigations”

Moscow, Russia, August 17–19, 2017

# PROGRAM

Sponsored by:



RUDN University  
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DAAD  
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Russian Foundation  
for Basic Research

**The 8th International Conference  
on Differential and Functional Differential Equations  
International Workshop “Differential Equations  
and Interdisciplinary Investigations”**

**Program Committee:**

S. Bianchini, V.M. Buchstaber, I. Capuzzo Dolcetta, G.-Q. Chen, S. Yu. Dobrokhotov, H. Ishii, W. Jäger, A.L. Skubachevskii (Chairman), I. A. Taimanov, L. Veron, H.-O. Walther.

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**List of 45-minute Lecturers:**

O. N. Ageev, C. Bardos, J. Batt, S. Bianchini, G. A. Bocharov, V. M. Buchstaber, G.-Q. Chen, A. A. Davydov, S. Yu. Dobrokhotov, Yu. A. Dubinskii, A. V. Fursikov, R. V. Gamkrelidze, F. Golse, V. Grines, H. Ishii, W. Jäger, T. Sh. Kalmenov, N. D. Kopachevskii, B. Lani-Wayda, G. G. Lazareva, G. A. Leonov, M. C. Mackey, E. I. Moiseev, A. Neishtadt, S. P. Novikov, R. Nussbaum, P. I. Plotnikov, M. B. Sevryuk, I. Shafrir, A. E. Shishkov, A. A. Shkalikov, I. A. Taimanov, D. V. Treschev, L. Veron, V. V. Vlasov, H.-O. Walther.

# Monday, August 14

9:00–11:00 **Registration**

## Conference Hall, 2<sup>nd</sup> Floor

### Coffee break

11:00–11:30 **Opening ceremony**

11:30–12:15 P. G. Grinevich, S. P. Novikov, “Singular solitons and indefinite metrics”

12:25–13:10 F. Golse, “On the mean-field and semiclassical limits of the  $N$ -particle Schrödinger equation”

13:20–14:05 R. V. Gamkrelidze, “The Pontryagin Maximum Principle as canonical duality in optimization problems”

### Lunch

15:30–16:15 R. D. Nussbaum, “Analyticity and non-analyticity for bounded solutions of functional differential equations”

16:25–17:10 T. Sh. Kalmenov, “Bitsadze–Samarsky boundary condition for elliptic-parabolic volume potential”

17:20–17:50 Ya. Sh. Ilyasov, “A new approach to the nonlinear generalization of the Rayleigh quotient”

18:00–18:30 E. Kalita, “Higher derivatives of solutions for elliptic systems with discontinuous coefficients”

18:40–19:00 E. L. Shishkina, “Singular solution of the general Euler–Poisson–Darboux equation”

19:30–22:00 **Reception**

## Auditorium 527, 5<sup>th</sup> Floor

*Session dedicated to the memory of Prof. M. S. Agranovich*

- 16:25–17:10 V. V. Vlasov, “Spectral analysis of integro-differential equations in Hilbert space and its applications”
- 17:20–17:50 T. A. Suslina, “Homogenization of higher-order elliptic equations with periodic coefficients”
- 18:00–18:30 S. E. Pastukhova, “Homogenization estimates in  $L^p$ -norms”
- 18:40–19:00 N. N. Senik, “On homogenization for locally periodic strongly elliptic operators”
- 19:30–22:00 **Reception**

## Auditorium 528, 5<sup>th</sup> Floor

- 16:25–17:10 M. B. Sevryuk, “The reversible KAM theory: context 2 is catching up with context 1”
- 17:20–17:50 J. Boroński, A. Clark, P. Oprocha, “Pseudo-suspensions and Anosov–Katok fast approximation method”
- 18:00–18:30 M. L. Blank, “Dynamical averaging with respect to a non-invariant measure”
- 18:40–19:00 V. L. Chernyshev, A. A. Tolchennikov, “Asymptotic expansion for the number of points moving along a metric tree”
- 19:30–22:00 **Reception**

## Auditorium 629, 6<sup>th</sup> Floor

- 16:25–17:10 N. D. Kopachevsky, “On oscillations of joined bodies with fluid-filled cavities”
- 17:20–17:50 *Lecture cancelled*
- 18:00–18:30 A. M. Meirmanov, “Free boundaries in rock mechanics”
- 18:40–19:00 Yu. A. Gladyshev, V. V. Kalmanovich, “On some solutions of heat-and-mass transfer equation in multilayer media”
- 19:30–22:00 **Reception**

### **Auditorium 630, 6<sup>th</sup> Floor**

- 16:25–17:10 **A. E. Shishkov**, “Qualitative properties of large and very singular solutions to quasilinear parabolic equations”
- 17:20–17:50 *Lecture cancelled*
- 18:00–18:30 **Ya. I. Belopolskaya**, “Probabilistic interpretation of solutions to the Cauchy problem for quasilinear parabolic systems”
- 18:40–19:00 **M. N. Demchenko**, “Constructive solution of the observation problem for the wave equation”
- 19:30–22:00 **Reception**

### **Auditorium 631, 6<sup>th</sup> Floor**

- 16:25–17:10 **B. Lani-Wayda**, “Periodic solutions for  $N$ -dimensional cyclic non-monotone systems with negative delayed feedback”
- 17:20–17:50 **A. Ashyralyev, Kh. Belakroum**, “Stable difference schemes for a third order partial differential equation”
- 18:00–18:30 **D. I. Borisov**, “On spectral gaps for some periodic operators in a strip”
- 18:40–19:00 **N. V. Artamonov**, “On the solvability of a system of forward-backward linear equations with unbounded operator coefficients”
- 19:30–22:00 **Reception**

# Tuesday, August 15

## Conference Hall, 2<sup>nd</sup> Floor

10:00–10:45 I. A. Taimanov, “Calculus of variations in the large for magnetic geodesics”

10:55–11:40 E. I. Moiseev, T. E. Moiseev, A. A. Kholomeeva, “On the uniqueness of solutions of boundary value problems for mixed-type equations”

### Coffee break

12:00–12:45 G.-Q. G. Chen, “Multidimensional shock waves, free boundary problems and nonlinear PDEs of mixed type”

12:55–13:40 G. A. Leonov, N. V. Kuznetsov, “Analytical and numerical methods for the study of attractors: homoclinic bifurcations, localization, and dimension characteristics”

### Lunch

15:10–15:55 A. V. Fursikov, “Parabolic equations of normal type connected with 3D Helmholtz system and its nonlocal stabilization”

16:05–16:35 A. A. Arkhipova, “New regularity results for nonlinear parabolic systems. The  $A(t)$ -caloric approximation method”

16:45–17:15 E. Yu. Panov, “On approximation of entropy solutions to degenerate nonlinear parabolic equations”

### Coffee break

17:35–17:55 S. M. Sitnik, “Applications Of Buschman–Erdélyi transmutations to connection formulas for differential equations with singular coefficients”

18:05–18:25 Yu. M. Meshkova, “Homogenization of periodic hyperbolic systems with the correction term taken into account”

18:35–18:55 A. R. Hanalyev, “Coercive solvability of a nonlocal problem for a parabolic equation in the Slobodetskii spaces”

## Auditorium 527, 5<sup>th</sup> Floor

- 15:10–15:55 **A. A. Davydov**, “Existence of stationary solutions in population dynamics and their optimization”
- 16:05–16:35 **L. A. Kalyakin**, “Resonance capture in the system of two oscillators”
- 16:45–17:15 **I. V. Sadovnichaya**, “Convergence of spectral decompositions for the Dirac system”

### Coffee break

- 17:35–17:55 **D. Agirseven**, “On nonlinear delay parabolic equations”  
*Lecture by P. N. Nesterov is postponed to August 18, 16:30–17:00, Auditorium 629*  
*Lecture by M. Denche, O. Zibouche is postponed to August 18, 17:20–17:40, Auditorium 528*

## Auditorium 528, 5<sup>th</sup> Floor

- 15:10–15:55 **V. Grines**, “On topology of manifolds admitting Morse–Smale systems without heteroclinic intersections”
- 16:05–16:35 **V. M. Buchstaber, A. V. Mikhailov**, “The space of symmetric squares of hyperelliptic curves: infinite-dimensional Lie algebras and polynomial integrable dynamical systems on  $\mathbb{C}^4$ ”
- 16:45–17:15 **N. M. Ivochkina**, “On the two symmetries in the theory of  $m$ -Hessian operators”

### Coffee break

- 17:35–17:55 **D. V. Artamonov**, “The Stoke phenomenon for an irregular Gelfand–Kapranov–Zelevinsky system associated with a rank one lattice”
- 18:05–18:25 **R. Levin, I. Vyugin**, “On the Riemann–Hilbert problem for difference and  $q$ -difference systems”
- 18:35–18:55 **V. E. Rayskin**, “Normal forms and localization of Banach spaces”

## **Auditorium 629, 6<sup>th</sup> Floor**

- 15:10–15:55 **G. G. Lazareva**, “Mathematical simulation of plasma physics: elaboration, test solutions, and results of computational experiments”
- 16:05–16:35 **A. D. Yunakovsky**, “Hyperbolization of the nonlinear Schrödinger equation”
- 16:45–17:15 **P. A. Vel'misov, E. P. Semenova, Ju. A. Tamarova**, “Asymptotic equations in the continuum mechanics and their applications”

### **Coffee break**

- 17:35–17:55 **Ya. L. Bogomolov, M. A. Borodov, A. D. Yunakovsky, V. Yu. Zaslavsky**, “Method of discrete sources for scattering problem in plane channel with sharp corners”
- 18:05–18:25 **A. V. Ivanyukhin, V. G. Petukhov**, “Joint optimization of the trajectory and the main design parameters of electric propulsion system”
- 18:35–18:55 **V. V. Zaytsev**, “Variety of problems and algorithms of estimation of the integral funnel of a dynamical system”

## **Auditorium 630, 6<sup>th</sup> Floor**

- 15:10–15:55 **S. Yu. Dobrokhotov**, “New formulas for the Maslov canonical operator in the neighborhood of the Lagrangian singularities and their applications in the linear water theory”
- 16:05–16:35 **P. G. Grinevich, P. M. Santini**, “The periodic Cauchy problem for self-focusing NLS equation near constant solutions”
- 16:45–17:15 **N. Boussaïd, A. Comech**, “Spectral stability of weakly relativistic solitary waves in the nonlinear Dirac equation”

### **Coffee break**

- 17:35–17:55 **N. A. Gusev**, “A necessary and sufficient condition for existence of measurable flow of a bounded Borel vector field”
- 18:05–18:25 **A. V. Ivanov**, “Doubly asymptotic trajectories near the adiabatic limit for lagrangian systems with turning points”
- 18:35–18:55 **A. A. Tolchennikov**, “Asymptotic solution of a linear wave in a regular lattice created by a localized perturbation and new types of Lagrangian singularities”



## **Auditorium 631, 6<sup>th</sup> Floor**

- 15:10–15:55 **G. A. Bocharov**, “Current challenges in mathematical modelling of immune processes”
- 16:05–16:35 **V. Volpert**, “Reaction-diffusion waves in physiological applications”
- 16:45–17:15 **Yu. V. Vassilevski, T. M. Gamilov, Ph. Y. Kopylov**, “Differential equations and personalized computation of fractional flow reserve”

### **Coffee break**

- 17:35–17:55 **I. Kashchenko**, “Dynamics of equation with large spatial control”
- 18:05–18:25 **M. N. Oreshina**, “Numerical solution of a parabolic equation by means of the rational approximation of the operator exponential”

# Wednesday, August 16

## Conference Hall, 2<sup>nd</sup> Floor

- 10:00–10:45 D. V. Treschev, “Integrability and chaos: coexistence on open sets”
- 10:55–11:40 S. Bianchini, P. Bonicatto, “A decomposition result for vector fields in  $\mathbb{R}^d$ ”

### Coffee break

- 12:00–12:45 A. A. Shkalikov, “Differential operators with distribution coefficients. Regularization method and asymptotics of fundamental solutions”
- 12:55–13:40 M. C. Mackey, “Mathematical models of gene regulation: New mathematics from biology (again)”

### Lunch

- 15:10–15:40 Y. Kobayashi, N. Tanaka, “Dissipative evolution problems in metric spaces”
- 15:50–16:20 E. A. Baderko, M. F. Cherepova, “Mixed boundary value problem for parabolic systems on the plane and boundary integral equations”
- 16:30–17:00 V. N. Denisov, “On large-time asymptotics of solutions of parabolic equations with growing higher-order coefficients”

### Coffee break

- 17:20–17:40 S. A. Sergeev, “Asymptotic solution of the linearized Korteweg–de Vries equation over variable background”
- 17:50–18:10 R. K. Gaydukov, V. G. Danilov, “Time scales in the double-deck structures of the boundary layers”
- 18:20–18:40 A. V. Koptev, “Depression of Euler equations for motion of compressible medium flow”

## **Auditorium 527, 5<sup>th</sup> Floor**

- 15:10–15:40 **A. Yu. Trynin**, “Krylov test for the Lagrange–Sturm–Liouville operators”
- 15:50–16:20 **Ya. M. Dymarskii**, “Manifolds of potentials and eigenfunctions of periodic eigenvalue problems”
- 16:30–17:00 **B. E. Kanguzhin**, “Differential operators on graphs and their spectral analysis”

### **Coffee break**

- 17:20–17:40 **A. M. Savchuk**, “Asymptotic formulas for high-order ordinary differential operators with distribution coefficients”
- 17:50–18:10 **D. M. Polyakov**, “Spectral analysis of even order differential operator”
- 18:20–18:40 **M. V. Kukushkin**, “Spectral properties of fractional differentiation operators”

## **Auditorium 528, 5<sup>th</sup> Floor**

- 15:10–15:40 **V. P. Leksin**, “On solutions of Schlesinger equation for third order upper-triangular matrices”
- 15:50–16:20 **M. V. Shamolin**, “Integrable system with dissipation on tangent bundle of two-dimensional manifold”
- 16:30–17:00 **S. D. Glyzin, S. A. Kashchenko, A. O. Tolbey**, “Waves interactions in a nonlinear dislocation equation”

### **Coffee break**

- 17:20–17:40 **A. E. Merzon**, “On the dynamics of nonlinear interaction of the string with an oscillator (the nonlinear Lamb system)”
- 17:50–18:10 **P. V. Bibikov**, “On differential invariants of quasilinear second order ordinary differential equations”
- 18:20–18:40 **O. A. Sultanov**, “Long-term stability of dynamical systems with respect to stochastic perturbations”

### **Auditorium 629, 6<sup>th</sup> Floor**

- 15:10–15:40 **A. P. Soldatov, N. A. Zhura**, “Boundary value problem for first order hyperbolic system in the plane”
- 15:50–16:20 **V. P. Burskii**, “On equivariant boundary value problems and some applications”
- 16:30–17:00 **Kh.G. Umarov**, “The Cauchy problem for the equation of longitudinal oscillations of an infinite rod”

#### **Coffee break**

- 17:20–17:40 **D. V. Limanskii**, “On subordination of one minimal differential operator to the tensor product of two others”
- 17:50–18:10 **Yu. K. Sabitova**, “The Dirichlet problem for a loaded equation of mixed type”
- 18:20–18:40 **A. F. Pranevich**, “Poisson’s theorem for building first integrals of multidimensional differential systems”

### **Auditorium 630, 6<sup>th</sup> Floor**

- 15:10–15:40 **A. I. Nazarov**, “Variational inequalities for the fractional Laplacians”
- 15:50–16:20 **D. Apushkinskaya**, “Error estimates for solutions of lower dimensional obstacle problems”
- 16:30–17:00 **A. A. Kovalevsky**, “Variational problems with regular and irregular bilateral constraints in variable domains”

#### **Coffee break**

- 17:20–17:40 **N. V. Filimonenkova**, “Study of  $m$ -convex hypersurfaces”
- 17:50–18:10 **N. A. Ibragimova**, “Solution of the Dirichlet problem for a degenerating  $B$ -elliptic equation”

## **Auditorium 631, 6<sup>th</sup> Floor**

- 15:10–15:40 **V. D. Stepanov**, “Characterization of associate function spaces”  
15:50–16:20 **E. P. Ushakova**, “Battle–Lemarié type wavelet systems with localization property”  
16:30–17:00 **J. Pankaj**, “Hilbert inequality on function spaces”

### **Coffee break**

- 17:20–17:40 **N. M. Ratiner**, “Degree of locally condensing perturbations of Fredholm maps with positive index and its application”  
17:50–18:10 **A. Poliakovsky**, “On spaces of bounded  $q$ -variation in dimension  $N$ ”  
18:20–18:40 **S. M. Farsani**, “New discrete Hardy inequalities”

# Thursday, August 17

## Conference Hall, 2<sup>nd</sup> Floor

10:00–10:45 W. Jäger, “Mathematical modelling and analysis of processes in poroelastic media — applications in medicine”

10:55–11:40 V.M. Buchstaber, A.A. Glutsyuk, “Phase-lock in the Josephson effect model and double confluent Heun equations”

### Coffee break

12:00–12:45 H. Ishii, “The vanishing discount problem for fully nonlinear degenerate elliptic PDEs”

12:55–13:40 I. Shafrir, “Distances between classes of sphere-valued maps”

### Lunch

15:10–15:40 A.L. Skubachevskii, “Kato square root problem for elliptic functional differential operators”

15:50–16:20 L. E. Rossovskii, “Elliptic functional differential equations with incommensurable contractions”

16:30–17:00 A.B. Muravnik, “On maximum principle for differential-difference equations”

### Coffee break

17:20–17:40 E.P. Ivanova, “Boundary value problems for differential-difference equations with incommensurable shifts of arguments”

17:50–18:10 A.L. Tasevich, “On solvability of functional-differential equations with contractions in weighted spaces”

18:20–18:40 C.A. Gallegos, H.R. Henríquez, J.G. Mesquita, “Measure functional differential equations with infinite time-dependent delay”

19:00–23:00 **Banquet**

## Auditorium 527, 5<sup>th</sup> Floor

### International Workshop “Differential Equations and Interdisciplinary Investigations”

- 15:10–15:40 E. Rühl, “Time-dependent processes in physics, chemistry, and life sciences”
- 15:50–16:20 T. A. Shaposhnikova, A. V. Podolskiy, “On the asymptotic limit of the effectiveness of reaction-diffusion equations in perforated media”
- 16:30–17:00 O. S. Rozanova, “Nonlinear stability of a stratified gas cloud in the field of Coriolis force”

#### Coffee break

- 17:20–17:40 F. Baustian, “Analyticity in time and space for a semilinear Cauchy problem”
- 17:50–18:10 Ya. A. Butko, “Chernoff approximation of solutions of integro-differential evolution equations corresponding to subordinate Markov processes”
- 18:20–18:40 E. V. Seregina, M. A. Stepovich, A. M. Makarenkov, “Orthogonal-projection method for solving stationary differential equations of heat and mass transfer in semi-infinite region”
- 19:00–23:00 **Banquet**

## Auditorium 528, 5<sup>th</sup> Floor

### International Workshop “Differential Equations and Interdisciplinary Investigations”

- 15:10–15:40 V. I. Burenkov, “Sharp spectral stability estimates for higher order elliptic differential operators”
- 15:50–16:20 L. A. Bordag, I. P. Yamshchikov, “Lie group analysis of an optimization problem for a portfolio with an illiquid asset”
- 16:30–17:00 J. Merker, “On doubly nonlinear evolution equations with dynamic relation between the state variables”

#### Coffee break

- 17:20–17:40 M. Gahn, “Derivation of effective models for reaction-diffusion processes in multi-component media including nonlinear transmission conditions”
- 17:50–18:10 Yu. Tsuzuki, “Solvability of Vlasov–Poisson equations with angle errors in magnetic field in the half-space”
- 18:20–18:40 Yu. O. Belyaeva, “Stationary solutions of the Vlasov system under external magnetic field in the half-space”
- 19:00–23:00 **Banquet**



## **Auditorium 629, 6<sup>th</sup> Floor**

- 15:10–15:40 **A. V. Dmitruk, N. P. Osmolovskii**, “Necessary conditions in optimal control problems with integral equations on a variable time interval”
- 15:50–16:20 **N. D. Vvedenskaya, Yu. M. Suhov**, “Differential equations related to birth-death processes”
- 16:30–17:00 **M. A. Kalashnikova, G. A. Kurina**, “Direct scheme method of constructing asymptotic solutions for three-tempo optimal control problem”

### **Coffee break**

- 17:20–17:40 **A. V. Dmitruk, I. A. Samylovskiy**, “Optimal synthesis in the simplified Goddard problem on a constrained time interval”
- 17:50–18:10 **A. S. Adkhamova**, “On some problem for control system with delays”
- 18:20–18:40 **P. S. Petrenko**, “To the question of robust controllability of differential-algebraic equations”
- 19:00–23:00 **Banquet**

## Auditorium 630, 6<sup>th</sup> Floor

- 15:10–15:40 M.-F. Bidaut-Veron, “A priori estimates and ground states of solutions of some Emden–Fowler equations with gradient term”
- 15:50–16:20 L. M. Kozhevnikova, “Entropy solutions of anisotropic elliptic equations with variable nonlinearity in unbounded domains”
- 16:30–17:00 V. F. Vildanova, F. Kh. Mukminov, “The existence of a unique weak solution to the problem for the aggregation equation with the  $p(\cdot)$ -Laplacian”

### Coffee break

- 17:20–17:40 O. V. Solonukha, “On solvability of functional differential equations with  $p$ -Laplacian and nonsymmetric difference operators”
- 17:50–18:10 V. Bobkov, S. Kolonitskii, “On some properties of nodal solutions for quasilinear elliptic problems”
- 18:20–18:40 M. L. Zaytsev, “Transformation of systems of partial differential equations to systems of quasilinear and linear differential equations and their reduction”
- 19:00–23:00 **Banquet**

## **Auditorium 631, 6<sup>th</sup> Floor**

- 15:10–15:40 **S. N. Askhabov**, “Integro-differential equations of convolution type with monotone nonlinearity”
- 15:50–16:20 **Ya. A. Sharifov, F. M. Zeynally**, “Existence and uniqueness of solutions to a system of nonlinear integro-differential equations with two-point boundary conditions”
- 16:30–17:00 **S. M. Chuiko**, “Generalized Green operator of boundary-value problem for matrix differential algebraic equation”

### **Coffee break**

- 17:20–17:40 **R. I. Parovik**, “Application of fractional calculus to the theory of hereditary dynamical systems”
- 17:50–18:10 **A. V. Pavlov**, “The Dirichlet problem and disappearance of the imaginary part of the Laplace transform on the imaginary axis in connection with the Fourier–Laplace operators”
- 18:20–18:40 **A. Yaakbarieh**, “Well-posedness of a problem with the initial conditions for parabolic fractional differential equations with time shifts”
- 19:00–23:00 **Banquet**

# Friday, August 18

## Conference Hall, 2<sup>nd</sup> Floor

10:00–10:45 J. Batt, “Stationary solutions of the flat Vlasov–Poisson system”

10:55–11:40 A.I. Neishtadt, “On long-term dynamics of slow-fast systems with passages through resonances”

### Coffee break

12:00–12:45 L. Veron, “Quasilinear degenerate elliptic equations with measures data”

12:55–13:40 P.I. Plotnikov, “2D boundary value problem for Navier–Stokes–Fourier equations”

### Lunch

## International Workshop “Differential Equations and Interdisciplinary Investigations”

15:10–15:40 V.V. Vedenyapin, “The Hamilton–Jacobi method in the non-Hamiltonian situation and Boltzmann extremals”

15:50–16:20 S. Popov, V. Reitmann, S.N. Skopinov, “Boundedness and finite-time stability for multivalued doubly nonlinear evolutionary systems generated by microwave heating problems”

16:30–17:00 P. Gurevich, S. Tikhomirov, “Rattling in spatially discrete diffusion equations with hysteresis”

### Coffee break

17:20–17:40 J. Meichsner, A. Seifert, “On the domain of fractional powers of operators in Banach spaces and generalized Dirichlet-to-Neumann maps”

17:50–18:10 A.N. Bogolyubov, I.E. Mogilevsky, “Mathematical theory problems of diffraction on bodies with metal and dielectric edges”

18:20–18:40 E.A. Onoprienko, A.M. Shelekhov, “On integration of smooth multidimensional Bol loop structure equations”

18:50–19:10 Y. Yang, T. Richter, W. Jäger, M. Neuss-Radu, “An ALE approach to mechano-chemical processes in fluid-structure interactions”

## Auditorium 527, 5<sup>th</sup> Floor

- 15:10–15:40 A. I. Komech, “On global attractors of Hamilton nonlinear PDEs”
- 15:50–16:20 A. I. Bufetov, “Conditional measures of determinantal point processes: the Gibbs property and the Lyons–Peres conjecture”
- 16:30–17:00 S. G. Kryzhevich, E. O. Stepanov, “Closing and connecting lemmas for conservative flows in Euclidean spaces”

### Coffee break

- 17:20–17:40 A. V. Klimenko, “Limit theorems for interval exchange transformations”
- 17:50–18:10 L. S. Efremova, “The generalized concept of integrability and dynamics of the trace map”
- 18:20–18:40 B. Belaidi, “Fast growing solutions of linear differential equations with dominant coefficient of lower  $\mu\varphi$ -order”
- 18:50–19:10 K. S. Lapin, “Ultimate Poisson boundedness of solutions of systems of differential equations”

## Auditorium 528, 5<sup>th</sup> Floor

- 15:10–15:40 A. V. Glushak, “Cauchy weight problem for Euler–Poisson–Darboux equation”
- 15:50–16:20 V. Zh. Sakbaev, “Sobolev spaces of functions on a Hilbert space endowed with a shift-invariant measure”
- 16:30–17:00 S. I. Piskarev, “The order of convergence of difference schemes for fractional equations of order  $0 < \alpha < 1$ ”

### Coffee break

- 17:20–17:40 M. Denche, O. Zibouche, “Boundary value problem for second order quadratic ordinary differential pencil with integral boundary conditions”
- 17:50–18:10 N. A. Rautian, “Properties of solutions of integro-differential equations arising in heat and mass transfer theory”
- 18:20–18:40 S. S. Simakov, “Integrated mathematical model of the heart, heart valves and large vessels”
- 18:50–19:10 M. M. El-Borai, Kh. El-Said El-Nadi, “A fractional dynamical system related to tumor cancer evolution”

## **Auditorium 629, 6<sup>th</sup> Floor**

- 15:10–15:40 M. I. Kamenskii, M. B. Zvereva, “On oscillations of a string system with the hysteresis-type condition”
- 15:50–16:20 S. D. Glyzin, A. Yu. Kolesov, N. Kh. Rozov, “Relaxation periodic motion in circular Hopfield networks with delay”
- 16:30–17:00 P. N. Nesterov, “Asymptotic integration of functional differential equations with oscillatory decreasing coefficients”

### **Coffee break**

- 17:20–17:40 S. D. Glyzin, A. Yu. Kolesov, E. A. Marushkina, M. M. Preobrazhenskaia, “Pulse packets in a system of two nonlinearly coupled equations with delay”
- 17:50–18:10 A. A. Kashchenko, “Relaxation periodic solutions in a system with delay and finite nonlinearity”
- 18:20–18:40 N. B. Zhuravlev, A. N. Sokolova, “Dependence of eigenvalues of the translation operator on the translation length”
- 18:50–19:10 O. I. Bzheumikhova, “On existence of solution of a higher-order equation with delay”

## **Auditorium 630, 6<sup>th</sup> Floor**

- 15:10–15:40 G. I. Bizhanova, “Convergence of the solution of the Stefan problem with two small parameters  $\varepsilon, \kappa$  as  $\varepsilon, \kappa \rightarrow 0$ ”
- 15:50–16:20 G. P. Panasenko, “Method of asymptotic partial decomposition for multistructures: the steady Stokes equations”
- 16:30–17:00 L. G. Shagalova, “On a solution of the Hamilton–Jacobi equation with the noncoercive Hamiltonian”

### **Coffee break**

- 17:20–17:40 A. S. Demidov, M. A. Galchenkova, “The inverse magnetoencephalography problem and its flat approximation”
- 17:50–18:10 S. Z. Adzhiev, I. V. Melikhov, V. V. Vedenyapin, “Kinetic models of integration-fragmentation in the Becker–Döring case: derivation of equations and the H-theorem”
- 18:20–18:40 A. R. Moryakova, “Multistability in the Mackey–Glass equation”
- 18:50–19:10 V. V. Shcherbakov, “Path-independent integrals for interfacial cracks in composites”

## **Auditorium 631, 6<sup>th</sup> Floor**

- 15:10–15:40 **A. V. Razgulin, S. V. Sazonova**, “Hilbert–Schmidt matrix approach to Fourier filtering in functional-differential equations: theory and applications”
- 15:50–16:20 **E. P. Belan**, “Dynamics of travelling waves in the parabolic problem with transformed argument”
- 16:30–17:00 **P. M. Simonov**, “To the Bohl–Perron theorem for hybrid linear functional differential systems with aftereffect”

### **Coffee break**

- 17:20–17:40 **A. F. Kurin**, “Bifurcations in the nonhomogeneous Duffing equation for small perturbations”
- 17:50–18:10 **T. E. Romanenko, S. S. Budzinskiy**, “Hopf bifurcation of rotating waves in delayed parabolic functional-differential equations of nonlinear optics in the presence of symmetry groups”
- 18:20–18:40 **A. S. Rodin**, “Construction of a singular set for the solution of the Hamilton–Jacobi–Bellman equation with a two-dimensional phase variable”
- 18:50–19:10 **A. Akbari Fallahi**, “On the convergence to zero for the deviation of the independent variable in differential-difference equations with advancing”

# Saturday, August 19

## Conference Hall, 2<sup>nd</sup> Floor

- 10:00–10:45 H.-O. Walther, “Smoothness issues in differential equations with state-dependent delay, and processes for Volterra integro-differential equations”
- 10:55–11:40 Yu. A. Dubinskii, “On one boundary-value identity for three-dimensional vector fields and corresponding boundary-value problems”

### Coffee break

- 12:00–12:45 C. W. Bardos, E. Titi, “The Kolmogorov 1/3 law and the 1984 Kato theorem”
- 12:55–13:40 O. N. Ageev, “On multiple Lebesgue functions”

### Lunch

## International Workshop “Differential Equations and Interdisciplinary Investigations”

- 15:10–15:40 V. V. Palin, E. V. Radkevich, “Nonstandard hydrodynamics (two-dimensional shock waves)”
- 15:50–16:20 A. L. Zuyev, “Stabilization of nonlinear systems with a time-varying feedback control in critical cases”
- 16:30–17:00 R. Lauterbach, “Instability in shear flow”
- 17:10–17:30 V. Grushkovskaya, A. Zuyev, C. Ebenbauer, “On stability properties of extremum seeking systems with oscillating controls”
- 17:40–18:00 S. A. Vasilyev, “Singular perturbed system of differential equations of infinite order and nonhomogeneous Markov chain”
- 18:15–18:45 **Closing Ceremony**



## **Auditorium 527, 5<sup>th</sup> Floor**

- 15:10–15:40 **G. A. Chechkin, V. V. Chepyzhov**, “On homogenization of random attractors”
- 15:50–16:20 **E. A. Kopylova**, “On global attraction to solitary waves for Klein–Gordon equation with concentrated nonlinearities”
- 16:30–17:00 **N. O. Sedova**, “Estimation of the domain of attraction for constrained TS delay systems via LMI”
- 17:10–17:30 **E. L. Korotyaev, N. Yu. Saburova**, “Magnetic Schrödinger operators on periodic discrete graphs”
- 17:40–18:00 **A. N. Kulikov, D. A. Kulikov**, “Local bifurcations in the Ginzburg–Landau equation”
- 18:15–18:45 **Closing Ceremony**

## **Auditorium 528, 5<sup>th</sup> Floor**

- 15:10–15:40 **V. I. Vlasov**, “Weighted Hardy-type spaces of harmonic and analytic functions”
- 15:50–16:20 **A. Yu. Savin, E. Schrohe, B. Yu. Sternin**, “Elliptic operators associated with groups of quantized canonical transformations”
- 16:30–17:00 **V. B. Vasilyev**, “Manifolds with non-smooth boundaries, elliptic operators, and symbols”
- 17:10–17:30 **S. I. Bezrodnykh**, “Analytic continuation of the Lauricella function and integration of the associated system of PDEs”
- 17:40–18:00 **D. A. Juraev**, “Regularization of the Cauchy problem for systems of first-order elliptic equations”
- 18:15–18:45 **Closing Ceremony**

### **Auditorium 629, 6<sup>th</sup> Floor**

- 15:10–15:40 V. V. Obukhovskii, “On periodic problem for random functional differential inclusions”
- 15:50–16:20 V. G. Zadorozhniy, “Finding moment functions of solutions of differential equations with random coefficients”
- 16:30–17:00 V. B. Cherepennikov, “Smooth solutions of functional differential equations of neutral type”
- 17:10–17:30 S. V. Kornev, V. V. Obukhovskii, N. V. Loi, “Random guiding functions and asymptotic behavior of trajectories random differential inclusions”
- 17:40–18:00 I. F. Lezhenina, “On one equation with nonlocal conditions”
- 18:15–18:45 **Closing Ceremony**

### **Auditorium 630, 6<sup>th</sup> Floor**

- 15:10–15:40 V. G. Kurbatov, V. I. Kuznetsova, “A class of integral operators on  $\mathbb{R}^c$  with continuously varying kernels”
- 15:50–16:20 T. N. Fomenko, “Fixed points and coincidences of mappings on ordered sets”
- 16:30–17:00 V. I. Korzyuk, N. V. Vinh, “Classical solutions for one dimensional biwave equation”
- 17:10–17:30 J. B. Bacani, J. F. T. Rabago, “On Hyers–Ulam stability of third order linear differential equations having constant coefficients”
- 18:15–18:45 **Closing Ceremony**

## **Auditorium 631, 6<sup>th</sup> Floor**

- 15:10–15:40 **A. A. Kon'kov**, “On stabilization conditions for solutions of nonlinear parabolic equations”
- 15:50–16:20 **E. I. Galakhov, O. A. Salieva**, “Nonexistence of monotone solutions to some coercive elliptic inequalities in the half-space”
- 16:30–17:00 **N. A. Aliyev, Y. Y. Mustafayeva, M. Jahanshahi**, “On one problem with oblique derivatives”
- 17:10–17:30 **G. E. Murzabekova, K. B. Nurtazina**, “Numerical testing in inverse problems of graphs”
- 18:15–18:45 **Closing Ceremony**

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