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**The Fifth International Conference  
on  
Differential and Functional Differential Equations**

**PROGRAM**

**Moscow, Russia, August 17–24, 2008**



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



# **The Fifth International Conference on Differential and Functional Differential Equations**

## **Program Committee:**

D. V. Anosov (Co-chairman), V. M. Buchstaber, S. Yu. Dobrokhotov, B. Fiedler, R. V. Gamkrelidze, V. A. Il'in, W. Jäger, L. D. Kudryavtsev, V. A. Marchenko, J. Mather, E. F. Mishchenko, A. D. Myshkis, S. M. Nikol'skii, L. Nirenberg, Yu. S. Osipov (Co-chairman), S. I. Pohozaev, J. Qing, A. L. Skubachevskii (Vice-chairman), I. A. Taimanov, L. Veron, H.-O. Walther, P. Yang.

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## **List of 45-minute Invited Lecturers:**

A. L. Afendikov, M. S. Agranovich, S. Bianchini, V. M. Buchstaber, G.-Q. Chen, S. Yu. Dobrokhotov, Yu. A. Dubinskii, B. Fiedler, A. V. Fursikov, H. Ishii, W. Jäger, E. Ya. Khruslov, N. D. Kopachevsky, A. Kozhevnikov, V. V. Kozlov, S. B. Kuksin, E. Lanconelli, D. Li, V. A. Marchenko, J. Mather, P. Mironescu, L. Nirenberg, S. P. Novikov, S. I. Pohozaev, V. V. Pukhnachev, V. S. Rabinovich, G. R. Sell, L. P. Shilnikov, A. E. Shishkov, Ya. G. Sinai, I. A. Taimanov, D. V. Treschev, L. Veron, M. I. Vishik, H.-O. Walther, V. G. Zvyagin.

# **Monday, August 18**

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

11:00–11:30 **Opening ceremony**

11:30–12:15 **L. Nirenberg**, “Remarks on fully nonlinear elliptic equations”  
12:25–13:10 **V. V. Kozlov**, “The generalized Vlasov kinetic equation”

### **Lunch**

15:00–15:45 **Ya. G. Sinai**, “Separating solution of a non-linear recurrent equation”  
15:55–16:40 **J. N. Mather**, “Where are the Aubry sets?”  
16:50–17:35 **G.-Q. Chen**, “Nonlinear conservation laws of mixed type in mechanics and geometry”  
17:45–18:15 **A. M. Il'in**, “On the intermediate boundary layer in a problem for a system of ordinary differential equations with small parameter”  
18:25–18:55 **V. V. Novokshenov**, “Modulation instability and the Padé approximation of Painlevé transcendent”

19:00–22:00 **Reception**

## **Auditorium 225, 2<sup>nd</sup> Floor**

16:50–17:35 **M. S. Agranovich**, “Spectral problems for strongly elliptic systems in bounded Lipschitz domains”  
17:45–18:15 **Y. Belaud**, “Finite extinction time for solutions of some parabolic equations involving higher-order operators”  
18:25–18:55 **M. O. Korpusov, A. G. Sveshnikov**, “On blow-up of solutions for a system of Oskolkov equations”

19:00–22:00 **Reception**

## **Auditorium 325, 3<sup>rd</sup> Floor**

- 16:50–17:35 **A. V. Fursikov**, “Properties of stable invariant manifolds for semilinear parabolic equations and similar questions”
- 17:45–18:15 **V. M. Zakalyukin, A. N. Kurbatsev**, “Singularities of transitivity zones in three space”
- 18:25–18:55 **A. S. Gorodetski**, “On the stochastic layer of the standard map”
- 19:00–22:00 **Reception**

## **Auditorium 417, 4<sup>th</sup> Floor**

- 16:50–17:35 **A. L. Afendikov**, “Localized structures in viscous fluid flows”
- 17:45–18:15 **N. V. Chemetov, F. Cipriano**, “The 2D Euler equations and the statistical transport equations”
- 18:25–18:55 **V. P. Burskii**, “On a new setting of solution uniqueness problem”
- 19:00–22:00 **Reception**

# **Tuesday, August 19**

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

- 10:00–10:45 **S. P. Novikov**, “Discrete systems and complete integrability”  
10:55–11:40 **S. Bianchini**, “On the well posedness of transport equation for divergence free vector fields in the plane”

### **Coffee break**

- 12:10–12:55 **I. A. Taimanov**, “The Moutard transformation and two-dimensional rational solitons”  
13:05–13:50 **H. Ishii**, “Asymptotic solutions for large time of convex Hamilton–Jacobi equations”

### **Lunch**

- 15:30–16:00 **W. Jäger**, “Mathematics in industry. Strategies to improve the transfer to industry”  
16:15–16:45 **A. P. Buslaev, M. V. Yashina**, “Modeling of saturated motor-transport streams”

### **Coffee break**

- 17:15–17:45 **V. I. Ilgisonis**, “Present-day problems of high-temperature plasma equilibrium in magnetic field”  
17:55–18:15 **P. L. Gurevich**, “Parabolic problems with the Preisach hysteresis operator on the boundary. Application to thermal control processes”  
18:25–18:45 **L. Bistrov, V. Safronov, D. Teterin**, “Generalized root matrix for specialized solvers of differential equation”

## **Auditorium 225, 2<sup>nd</sup> Floor**

- 15:20–16:05 **S. Yu. Dobrokhotov**, “The description of waves and vortices of linear hyperbolic systems by means of generalized Maslov canonical operator with special focal points”
- 16:15–16:45 **S. A. Abdymanapov, S. K. Burgumbaeva**, “On the Bitsadze–Samarskii problem for a second-order elliptic system on the plane with polar singularity”

### **Coffee break**

- 17:15–17:45 **A. B. Tungatarov, D. K. Mukasheva**, “On the Bitsadze–Samarskii problem for a system of partial differential equation of first order with the Fuchs operator in the differential part”
- 17:55–18:15 **N. M. Ratiner**, “On the degree theory for Fredholm maps with positive index and some applications to nonlinear differential equations”
- 18:25–18:45 **T. N. Fomenko**, “On the convergence to the coincidence points of finite set of mappings of metric spaces”
- 18:55–19:15 **S. I. Bezrodnykh**, “Analytic extension of some generalized hypergeometric functions”

## **Auditorium 325, 3<sup>rd</sup> Floor**

- 15:20–16:05 **A. Kozhevnikov**, “On solvability of initial boundary-value problems for mixed order and multi-weighted parabolic systems”
- 16:15–16:45 **M.-F. Bidaut-Veron**, “Quasilinear elliptic equations with source terms of order 0 or 1”

### **Coffee break**

- 17:15–17:45 **S. E. Pastukhova**, “On a higher integrability of the gradient of solutions for elliptic and parabolic equations of variable nonlinearity order”
- 17:55–18:15 **O. V. Solonukha**, “On a nonlinear elliptic Dirichlet problem with shifts”
- 18:25–18:45 **E. Galakhov**, “Some applications of the nonlinear capacity method”
- 18:55–19:15 **E. A. Kalita**, “Nonlinear elliptic systems in grand Morrey spaces”

## **Auditorium 417, 4<sup>th</sup> Floor**

- 15:20–16:05 **N. D. Kopachevsky**, “Volterra integrodifferential equations on Hilbert space and applications”
- 16:15–16:45 **N. D. Vvedenskaya**, “Weak solutions to an equation with a shift”

### **Coffee break**

- 17:15–17:45 **A. G. Rutkas, L. A. Vlasenko**, “On a class of impulsive delay differential equations that arise in lumped-distributed networks”
- 17:55–18:15 **V. B. Cherepennikov, P. G. Ermolaeva**, “The method of polynomial quasisolutions in the theory of linear functional differential equations”
- 18:25–18:45 **L. K. Kuz'mina**, “About solutions of some systems of differential equations with small parameters”
- 18:55–19:15 **I. V. Goryuchkina**, “An algorithm for computing Boutroux asymptotics for solutions of second-order ordinary differential equations”

## **Auditorium 415, 4<sup>th</sup> Floor**

- 15:20–16:05 **D. Li**, “Complex blowups in 3D Navier–Stokes systems and the renormalization group method”
- 16:15–16:45 **V. V. Zhikov**, “On an approach to the solvability of modified Navier–Stokes equations”

### **Coffee break**

- 17:15–17:45 **V. P. Arkhipov**, “Degenerate differential equations of second order. Asymptotics of solutions”
- 17:55–18:15 **R. V. Shamin**, “Statistic methods for investigation of the solvability of nonlinear equations”
- 18:25–18:45 **V. I. Bezyaev**, “Asymptotic analysis of singularly perturbed quasi-linear systems and their applications in biology”
- 18:55–19:15 **V. A. Sloushch**, “Some generalizations of the Cwikel estimate for integral operators”

# **Wednesday, August 20**

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

- 10:00–10:45 **W. Jäger, A. Mikelic, M. Neuss-Radu**, “Modelling flow, chemical reactions and mechanical processes in tissue”  
10:55–11:40 **V. A. Marchenko**, “Inverse problems in the theory of small oscillations”

### **Coffee break**

- 12:10–12:55 **G. R. Sell**, “Navier–Stokes equations with Navier boundary conditions”  
13:05–13:50 **L. Véron**, “Boundary singularities of solutions of non-monotone nonlinear elliptic equations”

### **Lunch**

- 15:20–16:05 **R. Qesmi, H.-O. Walther**, “Center-stable manifolds for differential equations with state-dependent delays”  
16:15–16:45 **B. Lani-Wayda**, “Destruction of the planar attractor structure for  $\dot{x}(t) = f(x(t - 1))$ , when  $f$  changes from monotone to non-monotone”

### **Coffee break**

- 17:15–17:45 **M. I. Kamenskii, Y. V. Lysakova, P. Nistri**, “On bifurcation of periodic solutions for functional differential equations of neutral type with small delay”  
17:55–18:15 **N. B. Zhuravlev**, “On rational approximation of periodic solutions with irrational period”  
18:25–18:45 **D. D. Leonov**, “Some applications of boundary-value problems for differential-difference equations to control systems with aftereffects”  
18:55–19:15 **A. Kessi, Y. Adjabi**, “A class of nonlinear third-order rational ordinary differential equations which pass the Painleve test”

## **Auditorium 225, 2<sup>nd</sup> Floor**

- 15:20–16:05 **A. E. Shishkov**, “Localized and nonlocalized boundary blow-up regimes for quasilinear parabolic equations: energy approach”  
16:15–16:45 **N. M. Ivochkina**, “On solvability in the weak sense of the first initial boundary value problem for  $m$ -Hessian evolution equations”

### **Coffee break**

- 17:15–17:45 **Th. Lorenz**, “Mutational analysis: A joint framework for set evolutions and nonlocal partial differential equations”  
17:55–18:15 **Ye. N. Seitkulov**, “Existence conditions for a global strong solution to one class of nonlinear evolution equations in a Hilbert space”  
18:25–18:45 **V. Gutu**, “Shadowing in affine control systems”  
18:55–19:15 **Ya. L. Bogomolov**, “Inverse spectral problem arising in a supercollider simulation”

## **Auditorium 325, 3<sup>rd</sup> Floor**

- 15:20–16:05 **V. S. Rabinovich**, “Limit operators and their applications in the mathematical physics”  
16:15–16:45 **A. N. Bogolyubov, M. D. Malykh**, “On the Dirichlet problem in the domain with noncompact boundary”

### **Coffee break**

- 17:15–17:45 **Yu. V. Gandel**, “Boundary-value problems for the Helmholtz equation and their discrete models”  
17:55–18:15 **G. V. Grishina**, “On a second-order elliptic equation with a singular nonlinearity”  
18:25–18:45 **A. Dudkina**, “ $L_p$ -estimates of solutions for elliptic boundary-value problems with smooth curves of coefficients discontinuity”  
18:55–19:15 **D. V. Limanskii**, “On weak coercivity in the Sobolev spaces of vector-valued functions”

## **Auditorium 417, 4<sup>th</sup> Floor**

- 15:20–16:05 **V. G. Zvyagin**, “On the solvability of some boundary-value problems for stationary models of non-Newtonian hydrodynamics”
- 16:15–16:45 **A. I. Nazarov**, “Sharp spectral asymptotics of BVPs for ODEs and small ball behavior of Gaussian random processes”

### **Coffee break**

- 17:15–17:45 **N. A. Magnitskii**, “Application of the FSM-theory to analysis of Hamiltonian systems with two and three degrees of freedom”
- 17:55–18:15 **D. V. Novikov**, “On the topology of new integrable cases on the Lie algebras  $so(4)$ ,  $so(3, 1)$ , and  $e(3)$ ”
- 18:25–18:45 **A. Yu. Moskvin**, “On the topology of the Liouville foliation in the Dullin–Matveev integrable case on cotangent foliation to a two-dimensional sphere”
- 18:55–19:15 **A. F. Pranovich**, “First integrals of one class of Lappo–Danilevsky systems in total differentials”

# **Thursday, August 21**

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

10:00–10:45 **M. I. Vishik**, “Trajectory attractors for dissipative 2D Euler and 2D Navier–Stokes systems”

10:55–11:40 **E. Lanconelli**, “Lie groups constructed from Hörmander vector fields. Applications to Kolmogorov–Fokker–Planck equations”

### **Coffee break**

12:10–12:55 **S. I. Pohozaev**, “Existence and nonexistence of global solutions to Kuramoto–Sivashinsky-type models”

13:05–13:50 **V. V. Pukhnachev**, “Viscous flows in domains with multiply connected boundary”

### **Lunch**

15:20–15:50 **A. L. Skubachevskii**, “Necessary and sufficient conditions for the Fredholm solvability of nonlocal elliptic boundary-value problems”

16:00–16:30 **V. V. Vlasov, J. Wu**, “Spectral analysis of abstract hyperbolic equations with delay”

### **Coffee break**

17:00–17:30 **A. V. Razgulin, V. A. Grebennikov**, “Bifurcation to 2D spirals in parabolic models of feedback optical systems”

17:40–18:00 **M. A. Skryabin**, “Strongly elliptic functional differential operators with rotations”

18:10–18:30 **V. A. Popov**, “Energy inequalities for solutions of elliptic differential-difference equations with degeneration”

19:00–22:00 **Banquet**

## **Auditorium 225, 2<sup>nd</sup> Floor**

15:20–15:50 **A. S. Shamaev, A. A. Gavrikov, D. U. Knyazkov**, “Some spectral problems of porous media acoustics”

16:00–16:30 **T. A. Shaposhnikova, M. N. Zubova**, “On boundary homogenization of variational inequalities”

### **Coffee break**

17:00–17:30 **T. A. Suslina**, “Homogenization of a stationary periodic Maxwell system”

17:40–18:00 **V. Zh. Sakbaev**, “On averaging of semigroups in vanishing viscosity method”

18:10–18:30 **A. V. Faminskii, R. V. Kuvshinov**, “Global well-posedness of two initial boundary value problems for the Kawahara equation”

19:00–22:00 **Banquet**

## **Auditorium 325, 3<sup>rd</sup> Floor**

15:20–15:50 **A. S. Pechentsov, V. I. Kozko**, “Regularized traces of higher-order singular differential operators”

16:00–16:30 **Ya. Dymarskii**, “Bifurcations for small and large eigenfunctions in case of double degenerated eigenvalue”

### **Coffee break**

17:00–17:30 **Yu. A. Konyaev**, “Asymptotic analysis of initial and multi-point boundary-value problems for linear systems with polynomial matrices”

17:40–18:00 **I. V. Sadovnichaya**, “On equiconvergence of expansions into series with respect to eigenfunctions of the Sturm–Liouville operator”

18:10–18:30 **A. M. Savchuk**, “Stability theorems in spectral and inverse spectral problems for Sturm–Liouville operators”

19:00–22:00 **Banquet**

## **Auditorium 417, 4<sup>th</sup> Floor**

15:20–15:50 **V. P. Leksin**, “Dunkl operators for complex reflection groups and associativity equations”

16:00–16:30 **A. M. Krasnosel'skii, D. I. Rachinskii**, “Bifurcation to unbounded sequence of cyclic branches of solutions”

### **Coffee break**

17:00–17:30 **S. Liebscher**, “The tumbling Universe: ancient dynamics in Bianchi models”

17:40–18:00 **G. Kolutsky**, “Some upper estimates of the number of limit cycles in the Hilbert–Smale problem”

18:10–18:30 **I. V. Vyugin**, “On the Fuchsian systems with decomposable monodromy”

19:00–22:00 **Banquet**

# **Friday, August 22**

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

- 10:00–10:45 **B. Fiedler**, “Delay feedback control of single mode rotating waves: opportunities and limitations”  
10:55–11:40 **E. Ya. Khruslov**, “Homogenized models in hydrodynamics of suspensions”

### **Coffee break**

- 12:10–12:55 **P. Mironescu**, “Lifting default for  $\mathbb{S}^1$ -valued maps”  
13:05–13:50 **L. P. Shilnikov**, “Bifurcations and strange attractors”

### **Lunch**

- 15:20–15:50 **K. M. Pichkhadze, V. A. Vorontsov**, “Mathematical models for a landing of automatic interplanetary stations”  
16:00–16:30 **A. S. Arkhipov, A. M. Bishaev**, “Modeling of the dynamics of plasma jet from a stationary plasma thruster”

### **Coffee break**

- 17:00–17:30 **M. S. Konstantinov**, “On solving a boundary-value problem arising in computing of spacecraft trajectories”  
17:40–18:10 **V. V. Vedenyapin**, “Dynamics of a rotating body in chemical processes, electrophoresis, photophoresis, and Felix Erenhaft spirals”  
18:20–18:50 **V. G. Mal'ko, A. P. Plokhiih**, “On a numerical method for solving applied problems in the theory of diffraction of electromagnetic waves by complex-shaped bodies”  
19:00–19:30 **V. V. Malyshev, V. E. Usachov, P. V. Merkulov**, “On a secure approach for activating an inflatable brake of a lander in the atmosphere of planets with undefined parameters”

## **Auditorium 225, 2<sup>nd</sup> Floor**

- 15:20–15:50 **A. M. Denisov**, “Existence and uniqueness of solution to the inverse problem for a semilinear functional differential wave equation”
- 16:00–16:30 **L. A. Beklaryan**, “Impulse solutions of functional differential equations of pointwise type”

### **Coffee break**

- 17:00–17:30 **P. Arlukowicz, W. Czernous**, “Numerical method of bicharacteristics for quasilinear partial functional differential equations”
- 17:40–18:10 **E. P. Belan**, “Dynamics of two-dimensional tori in the phenomenological equation of spin combustion”
- 18:20–18:50 **V. G. Kurbatov**, “Coupled transmission lines as a source of neutral type equations”
- 19:00–19:30 **V. B. Vasilyev**, “On some difference equations”

## **Auditorium 325, 3<sup>rd</sup> Floor**

- 15:20–15:50 **V. I. Korzyuk, E. S. Cheb, O. A. Konopel'ko**, “About boundary-value problems for fourth-order equations of hyperbolic and composite types”
- 16:00–16:30 **E. V. Radkevich, V. V. Palin**, “Problems with insufficient information about initial-boundary data”

### **Coffee break**

- 17:00–17:30 **A. I. Prilepko**, “Duality principles in the theory of control and observation in Banach spaces”
- 17:40–18:10 **I. V. Mikityuk, A. M. Stepin**, “The moment equivariance and the step-by-step reduction”
- 18:20–18:50 **V. I. Vlasov**, “Conversion of the Christoffel–Schwartz integral”
- 19:00–19:30 **A. Ya. Yakubov**, “Classes of almost weakly synchronous functions and their applications”

## **Auditorium 417, 4<sup>th</sup> Floor**

15:20–15:50 **V. Danchenko, A. A. Davydov, U. Dieckmann**, “Stationary solutions of a new model for spatial patterns of community”

16:00–16:30 **S. Zelik, D. Turaev**, “Sinai–Bunimovich space-time chaos for the 1D complex Ginzburg–Landau equation”

### **Coffee break**

17:00–17:30 **I. Kostin, G. Panasenko**, “Khokhlov–Zabolotskaya–Kuznetsov type equation with varying coefficients: existence, uniqueness of solution and homogenization”

17:40–18:10 **H. Oviedo, V. V. Kravchenko**, “Beltrami fields with a variable proportionality factor”

18:20–18:50 **A. L. Delitsyn**, “Vector functional spaces and boundary problems for Maxwell equations”

19:00–19:30 **N. E. Kulagin, L. M. Lerman**, “On various radial solutions of the Swift–Hohenberg equation”

19:40–20:10 **Yu. G. Rykov**, “On the extension of conservation laws theory to some degenerate parabolic systems governing the processes of multicomponent compressible filtration”

## **Saturday, August 23**

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

10:00–10:45 **V. M. Buchstaber**, “Solutions of two-dimensional heat type equations”

10:55–11:40 **S. B. Kuksin**, “Perturbed KdV equation”

#### **Coffee break**

12:10–12:55 **D. Treschev**, “Polymorphisms and adiabatic chaos”

13:05–13:50 **Ju. A. Dubinskii**, “Some decompositions of the Sobolev and Sobolev–Clifford scales and complex boundary-value problems”

#### **Lunch**

15:20–15:50 **G. A. Chechkin**, “Asymptotics of solutions of a boundary-value problem in multi-level conjunction”

16:00–16:30 **A. A. Kovalevsky**, “Proper entropy solutions for a class of nonlinear elliptic fourth-order equations with  $L^1$ -data”

16:40–17:10 **S. G. Kryzhevich**, “Weakly hyperbolic chaotic sets”

### **Auditorium 225, 2<sup>nd</sup> Floor**

15:20–15:50 **G. I. Bizhanova**, “On the classical solvability of a nonregular Stefan problem”

16:00–16:30 **V. N. Denisov**, “On stabilization of solutions of the Cauchy problem for nondivergent parabolic equations in classes of growing initial-value functions”

16:40–17:10 **A. V. Glushak, H. K. Awad**, “On a perturbation of an abstract differential equation with fractional derivatives”

## **Auditorium 325, 3<sup>rd</sup> Floor**

- 15:20–15:50 **V. V. Chepyzhov**, “Averaging of global attractors for nonautonomous dissipative wave equations with singularly time oscillating external forces”
- 16:00–16:30 **R. I. Bogdanov, M. R. Bogdanov**, “Strange attractors in the weakly dissipative version of the KAM theory”
- 16:40–17:10 **A. Yu. Konyaev**, “Bifurcation diagram of integrable analogs for classical equations describing motion of solid bodies and the spectral curve on complex semisimple Lie algebras”

## **Auditorium 417, 4<sup>th</sup> Floor**

- 15:20–15:50 **S. I. Mitrokhin**, “Asymptotics of solutions and eigenvalues for a functional differential operator of second order with summable potential”
- 16:00–16:30 **A. D. Yunakovskii**, “On the eigenmodes of a helical waveguide”
- 16:40–17:10 **D. L. Andrianov, P. M. Simonov**, “On solvability of nonlinear difference boundary-value problems”

17:20–18:00 **Closing ceremony (Conference Hall)**

## List of Participants

|   |   |
|---|---|
| <b>Abdymanapov<br/>Sarsengali<br/>Abdygalievich</b> | tun-mat@list.ru                                     |
| <b>Afendikov<br/>Andrei Leonidovich</b>             | andre@keldysh.ru                                    |
| <b>Agranovich<br/>Mikhail Semenovich</b>            | msa.funcan@mtu-net.ru,<br>magran@orc.ru             |
| <b>Arkhipov<br/>Alexey Sergeevich</b>               | riame4@sokol.ru                                     |
| <b>Arkhipov<br/>Viktor Petrovich</b>                | varhipov@inbox.ru                                   |
| <b>Beklaryan<br/>Lieva Andreevich</b>               | Beklar@cemi.rssi.ru                                 |
| <b>Belan<br/>Evgenii Petrovich</b>                  | belan@tnu.crimea.ua<br>belan@gaeck.sf.energy.gov.ua |
| <b>Belaud<br/>Yves</b>                              | belaud@univ-tours.fr                                |
| <b>Bezrodnykh<br/>Sergey Igorevitch</b>             | sergeyib@pochta.ru                                  |
| <b>Bezyaev<br/>Vladimir Ivanovich</b>               | vbezyaev@mail.ru                                    |
| <b>Bianchini<br/>Stefano</b>                        | bianchin@sissa.it                                   |
| <b>Bidaut-Veron<br/>Marie-Francoise</b>             | veronmf@univ-tours.fr                               |
| <b>Bishaev<br/>Alexander Mikhailovich</b>           | riame4@sokol.ru                                     |
| <b>Bizhanova<br/>Galina Irzhanovna</b>              | galya@math.kz,<br>galina_math@mail.ru               |

|                              |                              |
|------------------------------|------------------------------|
| <b>Bogdanov</b>              | bogdanov@bogdan.sinp.msu.ru  |
| <b>Rifkat Ibragimovich</b>   |                              |
| <b>Bogolyubov</b>            | malykham@mtu-net.ru          |
| <b>Alexander Nikolaevich</b> |                              |
| <b>Bogomolov</b>             | bogomol@appl.sci-nnov.ru     |
| <b>Yakov Leonidovich</b>     |                              |
| <b>Buchstaber</b>            | buchstab@orc.ru,             |
| <b>Victor Matveevich</b>     | buchstab@mi.ras.ru           |
| <b>Burskii</b>               | burskii@iamm.ac.donetsk.ua,  |
| <b>Vladimir Petrovich</b>    | v30@dn.farlep.net            |
| <b>Buslaev</b>               | apa12006@yandex.ru,          |
| <b>Alexander Pavlovich</b>   | busl@math.madi.ru            |
| <b>Bystrov</b>               | tdp@kbep.ru                  |
| <b>Leonid Grigoryevich</b>   |                              |
| <b>Chechkin</b>              | chechkin@mech.math.msu.su    |
| <b>Gregory Alexandrovich</b> |                              |
| <b>Chemetov</b>              | chemetov@ptmat.fc.ul.pt      |
| <b>Nikolai Vasilievich</b>   |                              |
| <b>Chen</b>                  | gqchen@math.northwestern.edu |
| <b>Gui-Qiang</b>             |                              |
| <b>Chepyzhev</b>             | chep@iitp.ru                 |
| <b>Vladimir Viktorovich</b>  |                              |
| <b>Cherepennikov</b>         | vbcher@icc.ru                |
| <b>Valeriy Borisovich</b>    |                              |
| <b>Czernous</b>              | czernous@math.univ.gda.pl    |
| <b>Wojciech Kiejstut</b>     |                              |
| <b>Davydov</b>               | davydov@vpti.vladimir.ru,    |
| <b>Alexey Alexandrovich</b>  | davydov@iiasa.ac.at          |

|                               |                           |
|-------------------------------|---------------------------|
| <b>Delitsyn</b>               | delitsyn@mail.ru          |
| <b>Andrey Leonidovich</b>     |                           |
| <b>Denisov</b>                | den@cs.msu.su             |
| <b>Alexander Mikhailovich</b> |                           |
| <b>Denisov</b>                | vdenisov2008@yandex.ru    |
| <b>Vasiliy Nikolaevich</b>    |                           |
| <b>Dobrokhotov</b>            | dobr@ipmnet.ru            |
| <b>Sergey Yurievich</b>       |                           |
| <b>Dubinskii</b>              | dubinskii@mm.mpei.ac.ru   |
| <b>Yulii Andreevich</b>       |                           |
| <b>Dudkina</b>                | dudkinaa@gmail.com        |
| <b>Anna</b>                   |                           |
| <b>Dymarskii</b>              | dymarsky@lep.lg.ua        |
| <b>Yakov Mihailovich</b>      |                           |
| <b>Fiedler</b>                | bernard_f@web.de,         |
| <b>Bernold</b>                | Fiedler@math.fu-berlin.de |
| <b>Fomenko</b>                | tn-fomenko@yandex.ru      |
| <b>Tatiana Nikolaevna</b>     |                           |
| <b>Fursikov</b>               | fursikov@mtu-net.ru       |
| <b>Andrei Vladimirovich</b>   |                           |
| <b>Galakhov</b>               | galakhov@rambler.ru       |
| <b>Evgeny Igorevich</b>       |                           |
| <b>Gandel</b>                 | gandel@univer.kharkov.ua  |
| <b>Yuri Vladimirovich</b>     |                           |
| <b>Gavrikov</b>               | topol555@gmail.com        |
| <b>Alexander</b>              |                           |
| <b>Alexandrovich</b>          |                           |
| <b>Glushak</b>                | aleglu@mail.ru            |
| <b>Alexander Vasilievich</b>  |                           |

|                               |                                |
|-------------------------------|--------------------------------|
| <b>Gorodetskiy</b>            | asgor@mail.ru                  |
| <b>Anton Semenovich</b>       |                                |
| <b>Goryuchkina</b>            | chukhareva@yandex.ru           |
| <b>Irina Vladimirovna</b>     |                                |
| <b>Grebennikov</b>            | vladimir.grebennikov@gmail.com |
| <b>Vladimir Andreevich</b>    |                                |
| <b>Grishina</b>               | galinavg@mtu-net.ru            |
| <b>Galina Vladimirovna</b>    |                                |
| <b>Gurevich</b>               | gurevichp@gmail.com            |
| <b>Pavel Leonidovich</b>      |                                |
| <b>Gutu</b>                   | gutu@usm.md                    |
| <b>Valeriu</b>                |                                |
| <b>Gvazava</b>                | jgvaza@rmi.acnet.ge            |
| <b>Jondo</b>                  |                                |
| <b>Il'in</b>                  | iam@imm.uran.ru, iam@csu.ru    |
| <b>Arlen Mikhaylovich</b>     |                                |
| <b>Il'in</b>                  | iline@cs.msu.su                |
| <b>Vladimir Alexandrovich</b> |                                |
| <b>Ilgisonis</b>              | vil@nfi.kiae.ru                |
| <b>Victor Igorevich</b>       |                                |
| <b>Ishii</b>                  | ishii@edu.waseda.ac.jp,        |
| <b>Hitoshi</b>                | hitoshi.ishii@waseda.jp        |
| <b>Ivochkina</b>              | ninaiv@NI1570.spb.edu,         |
| <b>Nina Mikhaylovna</b>       | mail@NI1570.spb.edu            |
| <b>Jäger</b>                  | jaeger@iwr.uni-heidelberg.de   |
| <b>Willi</b>                  |                                |
| <b>Kalita</b>                 | kalita@iamm.ac.donetsk.ua,     |
| <b>Evgeni Alexandrovich</b>   | ekalita@mail.ru                |
| <b>Kamenskii</b>              | mikhailkamenski@mail.ru        |
| <b>Mikhail Igorevich</b>      |                                |

|  |   |
|--|---|
| <b>Kessi<br/>Arezki</b>                            | arkessi@yahoo.com                                     |
| <b>Khruslov<br/>Evgenii Yakovlevich</b>            | khruslov@ilt.kharkov.ua                               |
| <b>Knyazkov<br/>Dmitrij Urievich</b>               | knyaz@ipmnet.ru                                       |
| <b>Kolutsky<br/>Grisha</b>                         | kolutsky@mccme.ru                                     |
| <b>Konstantinov<br/>Mikhail Sergeevich</b>         | mkonst@bk.ru  |
| <b>Konyaev<br/>Andrei Yur'evich</b>                | maodzund@bk.ru  |
| <b>Konyaev<br/>Yuriy Alexanrovich</b>              | konyaevs@tochka.ru,<br>equadiff@sci.pfu.edu.ru        |
| <b>Kopachevsky<br/>Nikolay Dmitrievich</b>         | kopachevsky@list.ru                                   |
| <b>Korotkevich<br/>Alexander<br/>Alexandrovich</b> | korotkevich_aa@mail.ru                                |
| <b>Korpusov<br/>Maxim Olegovich</b>                | korpusov@rsci.ru                                      |
| <b>Korzyuk<br/>Viktor Ivanovich</b>                | korzyuk@bsu.by  |
| <b>Kovalevsky<br/>Alexander Albertovich</b>        | alexkvl@iamm.ac.donetsk.ua,<br>aakovalevsky@yahoo.com |
| <b>Kozhevnikov<br/>Alexander</b>                   | kogevn@math.haifa.ac.il                               |
| <b>Kozko<br/>Artem Ivanovich</b>                   | prozerpi@yahoo.co.uk                                  |

|                              |                                |
|------------------------------|--------------------------------|
| <b>Kozlov</b>                | kozlov@pran.ru, kozlov@pran.ru |
| <b>Valerii Vasilievich</b>   |                                |
| <b>Krasnosel'skii</b>        | amk@iitp.ru, sashaamk@iitp.ru  |
| <b>Alexander Markovich</b>   |                                |
| <b>Kryzhevich</b>            | kryzhevitz@rambler.ru,         |
| <b>Sergey Gennadieievich</b> | kryzhevich@hotmail.com         |
| <b>Kuksin</b>                | kuksin@ma.hw.ac.uk,            |
| <b>Sergey Borisovich</b>     | kuksin@mi.ras.ru               |
| <b>Kurbatov</b>              | kurbatov@stu.lipetsk.su,       |
| <b>Vitaliy Gennad'evich</b>  | kv51@inbox.ru                  |
| <b>Kurbatskiy</b>            | akurbatskiy@rambler.ru         |
| <b>Aleksei Nikolaevich</b>   |                                |
| <b>Kuvshinov</b>             | infty@mail.ru                  |
| <b>Roman</b>                 |                                |
| <b>Kuz'mina</b>              | Lyudmila.Kuzmina@ksu.ru        |
| <b>Lyudmila</b>              |                                |
| <b>Konstantinovna</b>        |                                |
| <b>Lanconelli</b>            | lanconel@dm.unibo.it           |
| <b>Ermanno</b>               |                                |
| <b>Lani-Wayda</b>            | Bernhard.Lani-Wayda@math.uni-  |
| <b>Bernhard</b>              | giessen.de                     |
| <b>Leksin</b>                | lexine@mccme.ru,               |
| <b>Vladimir Pavlovich</b>    | vplexine@yahoo.com             |
| <b>Leonov</b>                | dmitriy_leonov@list.ru         |
| <b>Dmitrii Dmitrievich</b>   |                                |
| <b>Lerman</b>                | lermanl@mm.unn.ru              |
| <b>Lev Mikhailovich</b>      |                                |
| <b>Li</b>                    | DongLi@math.ias.edu            |
| <b>Dong</b>                  |                                |

|   |   |
|---|---|
| <b>Liebscher<br/>Stefan</b>                 | liebsch@math.fu-berlin.de                       |
| <b>Limanskii<br/>Dmitrii Vladimirovich</b>  | lim3@skif.net                                   |
| <b>Lorenz<br/>Thomas</b>                    | thomas.lorenz@iwr.uni-heidelberg.de             |
| <b>Lysakova<br/>Yulia Valeryevna</b>        | juli06@mail.ru                                  |
| <b>Magnitskii<br/>Nikolay Alexandrovich</b> | mag@su29.ru, nmag@isa.ru                        |
| <b>Mal'ko V. G.</b>                         | riame@sokol.ru                                  |
| <b>Malykh<br/>Mikhail Dmitrievitch</b>      | malykham@mtu-net.ru                             |
| <b>Marchenko<br/>Vladimir Alexandrovich</b> | marchenko@ilt.kharkov.ua,<br>marchenko@vk.kh.ua |
| <b>Mather<br/>John</b>                      | jnm@math.princeton.edu                          |
| <b>Merkulov<br/>Petr</b>                    | merkulov@laspace.ru                             |
| <b>Mironescu<br/>Petru</b>                  | mironescu@math.univ-lyon1.fr                    |
| <b>Mitrohin<br/>Sergei Ivanovich</b>        | Mitrokhin@srcc.msu.ru                           |
| <b>Moiseev<br/>Eugeniy Ivanovich</b>        | decan@cs.msu.su                                 |
| <b>Moskovin<br/>Andrey Yurievich</b>        | moskvin-ay@mail.ru                              |
| <b>Mukasheva<br/>Dinara Kanatovna</b>       | mdina84@mail.ru                                 |

|                               |                            |
|-------------------------------|----------------------------|
| <b>Nazarov</b>                | an@AN4751.spb.edu          |
| <b>Alexander Il'ich</b>       |                            |
| <b>Nirenberg</b>              | nirenberg@cims.nyu.edu,    |
| <b>Louis</b>                  | niren1@cims.nyu.edu        |
| <b>Novikov</b>                | musixoid@gmail.com         |
| <b>Dmitry</b>                 |                            |
| <b>Vyacheslavovich</b>        |                            |
| <b>Novikov</b>                | novikov@ipst.umd.edu,      |
| <b>Sergey Petrovich</b>       | novikov@landau.ac.ru       |
| <b>Novokshenov</b>            | novokshenov@yahoo.com      |
| <b>Victor Yurievich</b>       |                            |
| <b>Oviedo</b>                 | hectorrovi@yahoo.com.mx    |
| <b>Hector</b>                 |                            |
| <b>Palin</b>                  | grey_stranger84@mail.ru    |
| <b>Vladimir Vladimirovich</b> |                            |
| <b>Panasenko</b>              | Grigory.Panasenko@univ-st- |
| <b>Grigory Petrovich</b>      | etienne.fr                 |
| <b>Pastukhova</b>             | leonowmw@cs.msu.su,        |
| <b>Svetlana Evgenievna</b>    | carumcarvi06@mail.ru,      |
|                               | pas-se@yandex.ru           |
| <b>Pechentsov</b>             | pechentsov@mail.ru,        |
| <b>Alexander Sergeevich</b>   | pechentsov@ok.ru           |
| <b>Piatnitski</b>             | andrey@sci.lebedev.ru      |
| <b>Andrey L'vovich</b>        |                            |
| <b>Plokhih</b>                | riame@sokol.ru             |
| <b>Andrei Pavlovich</b>       |                            |
| <b>Pohozaev</b>               | pokhozhaev@mi.ras.ru       |
| <b>Stanislav Ivanovich</b>    |                            |
| <b>Popov</b>                  | volodimir.a@gmail.com      |
| <b>Vladimir Alexeevich</b>    |                            |

|                              |                                      |
|------------------------------|--------------------------------------|
| <b>Pranovich</b>             | pronevich@tut.by                     |
| <b>Andrei Frantsevich</b>    |                                      |
| <b>Prilepko</b>              | tkachenko@nkosino.ru                 |
| <b>Alexey Ivanovich</b>      |                                      |
| <b>Pukhnachev</b>            | pukhnachev@gmail.com                 |
| <b>Vladislav Vasil'evich</b> |                                      |
| <b>Rabinovich</b>            | vladimir.rabinovich@gmail.com        |
| <b>Vladimir</b>              |                                      |
| <b>Radkevich</b>             | evra@mathlib.ru,                     |
| <b>Evgenny Vladimirovich</b> | evrad@land.ru                        |
| <b>Ratiner</b>               | ratiner@phys.vsu.ru                  |
| <b>Nadezhda Markovna</b>     |                                      |
| <b>Razgulin</b>              | razgulin@cs.msu.su                   |
| <b>Alexander Vitalievich</b> |                                      |
| <b>Rutkas</b>                | Anatoliy.G.Rutkas@univer.kharkov.ua, |
| <b>Anatoliy Georgievich</b>  | anatoly@rutrus.com                   |
| <b>Sadovnichaya</b>          | ivsad@yandex.ru                      |
| <b>Inna Victorovna</b>       |                                      |
| <b>Safronov</b>              | tdp@kbep.ru                          |
| <b>Valeriy Vasilyevich</b>   |                                      |
| <b>Sakbaev</b>               | fumi2003@mail.ru                     |
| <b>Vsevolod Zhanovich</b>    |                                      |
| <b>Savchuk</b>               | artem_savchuk@mail.ru                |
| <b>Artem Markovich</b>       |                                      |
| <b>Seitkulov</b>             | erj@mail.ru                          |
| <b>Yerzhan</b>               |                                      |
| <b>Nurakhanovich</b>         |                                      |
| <b>Sell</b>                  | sell@math.umn.edu                    |
| <b>George R.</b>             |                                      |

|                              |                             |
|------------------------------|-----------------------------|
| <b>Shamaev</b>               | shamaev@ipmnet.ru,          |
| <b>Alexey Stanislavovich</b> | sham@rambler.ru             |
| <b>Shamin</b>                | roman@shamin.ru             |
| <b>Roman</b>                 | www.shamin.ru               |
| <b>Vyacheslavovich</b>       |                             |
| <b>Shaposhnikova</b>         | shapos@shaposht.msk.ru,     |
| <b>Tatyana Ardolionovna</b>  | shaposh.st@ru.net           |
| <b>Shilnikov</b>             | diffequ@unn.ac.ru,          |
| <b>Leonid Pavlovich</b>      | diffequ@unn.ac.ru           |
| <b>Shishkov</b>              | shishkov@iamm.ac.donetsk.ua |
| <b>Andrey Evgenievich</b>    |                             |
| <b>Simonov</b>               | simonov@prognoz.ru,         |
| <b>Petr Mikhaylovich</b>     | simonov@econ.psu.ru         |
| <b>Sinai</b>                 | sinai@math.princeton.edu    |
| <b>Yakov Grigor'evich</b>    |                             |
| <b>Skryabin</b>              | skryabinm@gmail.com         |
| <b>Maxim Alexandrovich</b>   |                             |
| <b>Skubachevskii</b>         | skub@lector.ru              |
| <b>Alexander Leonidovich</b> |                             |
| <b>Sloushch</b>              | vova@VS3648.spb.edu         |
| <b>Vladimir Anatolevich</b>  |                             |
| <b>Solonukha</b>             | solonukha@yandex.ru         |
| <b>Olesia Vladimirovna</b>   |                             |
| <b>Stepin A. M.</b>          | alex.gorbachev@gmail.com    |
| <b>Suslina</b>               | suslina@list.ru             |
| <b>Tatiana Alexandrovna</b>  |                             |
| <b>Sveshnikov</b>            | korpusov@rsci.ru            |
| <b>Alexey Georgievich</b>    |                             |

|                              |                                     |
|------------------------------|-------------------------------------|
| <b>Taimanov</b>              | taymanov@yahoo.com,                 |
| <b>Iskander Asanovich</b>    | taimanov@math.nsc.ru                |
| <b>Teterin</b>               | tdp@kbep.ru                         |
| <b>Dmitrii Pavlovich</b>     |                                     |
| <b>Treschev</b>              | treschev@mi.ras.ru                  |
| <b>Dmitriy Valer'evich</b>   |                                     |
| <b>Tungatarov</b>            | tun-mat@list.ru                     |
| <b>Aliaskar Bekenov</b>      |                                     |
| <b>Vasilyev</b>              | vbv57@inbox.ru                      |
| <b>Vladimir</b>              |                                     |
| <b>Vedenyapin</b>            | vicveden@kiam.ru                    |
| <b>Victor Valentinovich</b>  |                                     |
| <b>Veron</b>                 | veronl@univ-tours.fr,               |
| <b>Laurent</b>               | laurent.veron@univ-tours.fr         |
| <b>Vishik</b>                | vishik@iitp.ru                      |
| <b>Marko Iosifovich</b>      |                                     |
| <b>Vlasenko</b>              | larisa.a.vlasenko@univer.kharkov.ua |
| <b>Larisa Andreevna</b>      |                                     |
| <b>Vlasov</b>                | vicvvlasov@rambler.ru,              |
| <b>Victor Valentinovich</b>  | vikvvlasov@rambler.ru               |
| <b>Vlasov</b>                | vlasov@ccas.ru                      |
| <b>Vladimir Ivanovich</b>    |                                     |
| <b>Vorontsov</b>             | vorontsov@laspace.ru                |
| <b>Viktor Aleksandrovich</b> |                                     |
| <b>Vvedenskaya</b>           | ndv@iitp.ru                         |
| <b>Nikita Dmitrievna</b>     |                                     |
| <b>Vyugin</b>                | vyugin@gmail.com                    |
| <b>Ilya Vladimirovich</b>    |                                     |
| <b>Walther</b>               | Hans-Otto.Walther@math.uni-         |
| <b>Hans-Otto</b>             | giessen.de                          |

|                              |                         |
|------------------------------|-------------------------|
| <b>Yakubov</b>               | yakub@inbox.ru          |
| <b>Ashab Yakubovich</b>      |                         |
| <b>Yashina</b>               | yash-marina@yandex.ru   |
| <b>Marina Viktorovna</b>     |                         |
| <b>Yunakovsky</b>            | yun@appl.sci-nnov.ru    |
| <b>Alexey Dmitrievich</b>    |                         |
| <b>Zakalyukin</b>            | zakalyu@mail.ru         |
| <b>Vladimir Mikhaylovich</b> |                         |
| <b>Zelik</b>                 | s.zelik@surrey.ac.uk    |
| <b>Sergey</b>                |                         |
| <b>Zhikov</b>                | zhikov@vpti.vladimir.ru |
| <b>Vasiliy Vasil'evich</b>   |                         |
| <b>Zhuravlev</b>             | Kolya090380@yandex.ru   |
| <b>Nikolay Borisovich</b>    |                         |
| <b>Zubova</b>                | obiorah@bk.ru           |
| <b>Mariya Nikolaevna</b>     |                         |
| <b>Zvyagin</b>               | zvg@main.vsu.ru         |
| <b>Victor Grigor'evich</b>   |                         |