

Spectral theory and differential equations – August 20-24, 2012

Sunday, August 19	
10:00 - 17:00	Registration at V.Karazin Kharkiv National University (4 Svobody Square; entrance hall)
Monday, August 20	
<i>Registration, opening and talks will take place at B.Verkin Institute for Low Temperature Physics, 47 Lenin Avenue (subway station "23 Augusta")</i>	
09:00 - 11:00	Registration
11:00-11:30	Opening
11:30-12:15	Zakharov V. , University of Arizona and Lebedev Physical Institute, Moscow, <i>"New integrable integro-differential equations (with A.Odesski)"</i>
12:15-13:00	Shkalikov A.A. , Moscow State University, <i>"Recovering of potentials from finite sets of spectral data"</i>
Lunch Break	
Chairman: Pastur L.A.	
15:00-15:45	Kappeler Th. , University of Zurich, <i>"On Zakharov-Shabat operators for the focusing NLS and their applications"</i>
15:45-16:30	Grinevich P. , Landau Institute for Theoretical Physics, Moscow, <i>"Singular real finite-gap potentials and indefinite metrics" (with S.P. Novikov)</i>
Coffee Break	
16:45-17:30	Pukhnachev V.V. , Lavrentyev Institute of Hydrodynamics, Novosibirsk, <i>"Boundary value problem for Navier-Stokes equations in domain with multiply connected boundary"</i>
17:30-18:15	Eremenko A. , Purdue University, USA, <i>"Spectral loci of some one-dimensional Schrödinger operators with polynomial coefficients"</i>
19:00	Get-together party (4 Svobody Square, University Café 'Bunker', underground floor of the University building)

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From August 21 till August 24 all talks will be held at V.Karazin Kharkiv National University (4 Svobody Square)

Tuesday, August 21	
Plenary Session	
Chairman: Dobrokhotov S.	
09:30-10:15	Alber H.-D. , Darmstadt University, <i>"Basing the plasticity equations on dislocation dynamics - a mathematical theory"</i>
10:15-11:00	Zhikov V. , Vladimir State Pedagogical University, <i>"Homogenization of a Navier-Stokes type system for electrorheological fluid"</i>
Coffee Break	
Chairman: Alber H.-D.	
11:15-12:00	Teschl G. , University of Vienna, <i>"Weyl-Titchmarsh-Kodaira theory for Schrödinger operators with strongly singular potentials"</i>
12:00-12:45	Kondratiev Yu. , Bielefeld University <i>"Nonlocal evolution equations from Markov dynamics in continuum"</i>
12:45-13:30	Dobrokhotov S. , Institute for Problems in Mechanics, Moscow, <i>"Pseudo-differential operators in adiabatic approximation and applications"</i>
Lunch Break	
18:30	Zakharov V.: Poetry Soirée (conference hall of the University Library, 4 Svobody Square) Вечер поэзии В.Е. Захарова (конференц-зал библиотеки ХНУ)

Session IP-I (21.08.2012)	
Chairman: Torba S.	
15:00-15:20	Pivovarchik V.N. (South-Ukrainian National Pedagogical University) <i>Inverse Sturm-Liouville problem by eigenvalues of four spectra</i>
15:20-15:40	Kobyakova L.N. (South-Ukrainian National Pedagogical University) <i>Spectral problem generated by the equation of smooth string with piece-wise constant friction</i>
15:40-16:00	Taystruk O. (South-Ukrainian National Pedagogical University) <i>On characteristic functions of operators on equilateral graphs</i>
16:00-16:20	Hryniv R.O. (Institute for Applied Problems of Mechanics and Mathematics, Lviv) <i>Inverse scattering for Schrödinger operators with singular Miura potentials</i>
Coffee Break	
Chairman: Pivovarchik V.N.	
16:40-17:00	Pronska N.I. (Institute for Applied Problems of Mechanics and Mathematics, Lviv) <i>On reconstruction of energy-dependent Sturm-Liouville equations from two spectra</i>
17:00-17:20	Torba S. (CINVESTAV del IPN, Queretaro, Mexico) <i>Transmutation operators, Darboux transformation and the recursive integrals</i>
17:20-17:40	Kravchenko V., Torba S. (CINVESTAV del IPN, Queretaro, Mexico) <i>Transformation operators, systems of recursive integrals and applications</i>
17:40-18:00	Sitnik S.M. (Voronezh Institute of the Ministry of Internal Affairs of Russia) <i>Some problems in the modern theory of transmutations</i>

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Session DE-I (21.08.2012)

Chairman: Kotlyarov V.P.

15:00-15:20	Faminskii, A.V. (Peoples' Friendship University of Russia) <i>On asymptotic decay of solutions to equations of Korteweg-de Vries type</i>
15:20-15:40	Ignatyev M.Yu. (Saratov State University) <i>On some boundary value problem for general KdV equation</i>
15:40-16:00	Smith D. (University of Crete, Greece) <i>Spectral theory of some non-selfadjoint linear differential operators</i>
16:00-16:20	Stephan H. (Weierstrass Institute, Berlin) <i>Linear evolution equations with positive solutions and connections to majorization theory and statistical physics</i>

Coffee Break

Chairman: Stephan H.

16:40-17:00	Zheltukhin K. (Middle East Technical University, Ankara) <i>Cartan matrices and integrable lattice Toda field equations</i>
17:00-17:20	Kotlyarov V.P. (Institute for Low Temperature Physics and Engineering, Kharkov) <i>A mixed problem to the Maxwell-Bloch equations and the matrix Riemann-Hilbert problem</i>
17:20-17:40	Zheltukhina N. (Bilkent University, Ankara) <i>Discretization of hyperbolic type Darboux integrable equations preserving integrability</i>
17:40-18:00	Minakov A.A. (Institute for Low Temperature Physics and Engineering, Kharkov) <i>Riemann-Hilbert problem and asymptotics for mKdV equation with step like initial data</i>
18:00-18:20	Chvartatskyi O.I. and Sydorenko Yu.M. (Ivan Franko National University of L'viv) <i>Binary transformations and nonlinear integrable systems</i>

Session AN-I (21.08.2012)

Chairman: Kostenko, A.

15:00-15:20	Golinskii L. (Institute for Low Temperature Physics and Engineering, Kharkiv) <i>Blaschke-type conditions in unbounded domains, generalized convexity and applications in perturbation theory</i>
15:20-15:40	Aleroev T.S., Larionov E.A. and Tankiev I.A. (Moscow State Academy of Municipal Services and Constructions) <i>Boundary value problems for differential equations of fractional order</i>
15:40-16:00	Ilchenko, Yu.V. (Taras Shevchenko National Kyiv University) <i>Cauchy problem for differential equation in Banach space with generally strongly positive operator coefficient</i>
16:00-16:20	Geftter, S.L. (Kharkiv National University) <i>On solutions of some boundary problems for inhomogeneous PDE with nondense defined operator in special spaces of entire functions</i>

Coffee Break

Chairman: Golinskii L.

16:40-17:00	Kostenko, A. (University of Vienna) <i>The HELP inequality and indefinite spectral problems</i>
17:00-17:20	Rutkas, A.G. and Vlasenko, L.A. (Kharkiv National University) <i>On parabolic impulsive functional differential equations with nonatomic difference operator</i>
17:20-17:40	Etienne, R. (University of Siegen) <i>The moments of the eigenvalue distributions of generalised Cantor Strings</i>
17:40-18:00	Freiberg, U. (University of Siegen) <i>Differential operators on fractal subsets of the real line</i>
18:00-18:20	Sedov A. (Magnitogorsk State University) <i>Approximate calculation of eigenvalues of the discrete operator with bounded perturbation</i>
18:20-18:40	Tsarev S. (Siberian Federal University, Krasnoyarsk) <i>Nonclassical boundary problems and the Abel problem of elementary integration of algebraic functions</i>

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Wednesday, August 22	
Plenary Session	
Chairman: Matveev V.	
09:30-10:15	Weder R. , Universidad Nacional Autonoma de Mexico, <i>"Topological effects in quantum mechanics and high-velocity estimates"</i>
10:15-11:00	Kuksin S. , Ecole Polytechnique, France, <i>"Integrability of KdV and properties of solutions for perturbed equations"</i>
Coffee Break	
Chairman: Kuksin S.	
11:15-12:00	Matveev V. , University of Bourgogne, <i>"Multiple rogue waves and extreme rogue waves solutions in integrable systems: from NLS to KP-I equation"</i>
12:00-12:45	Pelinovsky D. , McMaster University, <i>"Nonlinear Dirac equations and asymptotic stability of solitary waves in one dimension"</i>
12:45-13:30	Berlyand L. , Pennsylvania State University, <i>"Correctors in homogenization theory: from periodic to arbitrarily rough coefficients with non-separated scales and high contrast"</i>
Lunch Break	
19:00 Conference Dinner	

Session IP-II (22.08.2012)	
Chairman: Ismailov M.I.	
15:00-15:20	del Rio R. (National Autonomous University of Mexico) and Kudryavtsev M. (Institute for Low Temperature Physics and Engineering, Kharkov) <i>Inverse problems for Jacobi operators: Interior mass-spring perturbations in finite systems</i>
15:20-15:40	Silva L.O., del Rio R. (National Autonomous University of Mexico) and Kudryavtsev M.(ILTPE) <i>Inverse spectral analysis of infinite mass-spring systems: necessary and sufficient conditions</i>
15:40-16:00	Kudryavtsev M. (Institute for Low Temperature Physics and Engineering, Kharkov) <i>On three inverse problems for Jacobi matrices</i>
16:00-16:20	Dudkin M.E. (National Technical University of Ukraine "KPI", Kyiv) and Berezansky Yu.M. (Institute of Mathematics, Kyiv) <i>The strong Hamburger moment problem and related direct and inverse spectral problems for block Jacobi-Laurent matrices</i>
Coffee Break	
Chairman: Kudryavtsev M.	
16:40-17:00	Ismailov M.I. (Gebze Institute of Technology, Gebze-Kocaeli, Turkey) <i>Inverse scattering problem on the half-axis for a system of first order ordinary differential equations</i>
17:00-17:20	Amirov R. and Nabiev A.A. (Cumhuriyet University, Sivas, Turkey) <i>Inverse problems for pencils of differential equations with impulse</i>
17:20-17:40	Nabiev A.A. (Cumhuriyet University, Sivas, Turkey), Saltan S. and Gurdal M. (Suleyman Demirel University, Isparta) <i>On the inverse scattering problem for the discontinuous Sturm-Liouville equation with a steplike potential</i>

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Session DE-II (22.08.2012)	
Chairman: Fardigola L.V.	
15:00-15:20	Kopachevsky N.D. (Taurida National University, Simferopol) <i>On some classes of complete Volterra integro-differential equations in Hilbert space</i>
15:20-15:40	Kushnir R.M. (Institute for Applied Problems of Mechanics and Mathematics, L'viv) <i>About specifics of solving the inverse quasi-steady elasticity problems in inhomogeneous bodies</i>
15:40-16:00	Zloshchastiev K.G. (University of KwaZulu-Natal, Pietermaritzburg, South Africa) <i>Logarithmic nonlinear Schrödinger equation in theory of quantum Bose liquids</i>
16:00-16:20	Ryzhkova I. and Chueshov I.D. (Kharkiv National University) <i>On a model of interaction of a shallow shell with a fluid</i>
Coffee Break	
Chairman: Zloshchastiev K.G.	
16:40-17:00	Ptashnyk B.Yo. (Institute for Applied Problems of Mechanics and Mathematics, L'viv) <i>Local multipoint problems for evolutionary equations</i>
17:00-17:20	Fardigola L.V. (Institute for Low Temperature Physics and Engineering, Kharkiv) <i>On controllability problems for 1-d wave equation on a half-axis controlled by the Dirichlet boundary condition</i>
17:20-17:40	Mirzoev K. A. (Moscow State University) <i>Regularization of symmetric differential equations with distribution coefficients</i>
17:40-18:00	Khalina K.S. (Institute for Low Temperature Physics and Engineering, Kharkiv) <i>Neumann boundary controllability of the wave equation on a half-axis</i>

Session DE-III (22.08.2012)	
Chairman: Khrabustovskyi A.V.	
15:00-15:20	Mel'nyk T.A. (Taras Shevchenko National Kyiv University) <i>Asymptotic analysis of spectral problems in thick multi-level junctions and thick fractal junctions</i>
15:20-15:40	Pastukhova, S.E. (Moscow Institute of Radio-engineering, Electronics and Automation) <i>On the band-gap spectrum of elasticity theory operators on high-contrast two-phase composites</i>
15:40-16:00	Suslina, T.A. (St. Petersburg State University) <i>Homogenization of the Dirichlet problem for elliptic systems with periodic coefficients</i>
16:00-16:20	Shumilova, V.V. (Institute for Problems in Mechanics of RAS, Moscow) <i>On the spectrum of one-dimensional oscillations of layered viscoelastic materials</i>
Coffee Break	
Chairman: Suslina T.A.	
16:40-17:00	Hut, V.M. (Ivan Franko National University of L'viv) <i>Vibrating systems with heavy soft inclusions: asymptotics of spectrum</i>
17:00-17:20	Krylova, A.S. (Taras Shevchenko National Kyiv University) <i>Homogenization of spectral problem on periodic networks</i>
17:20-17:40	Khrabustovskyi, A.V. (Institute for Low Temperature Physics and Engineering, Kharkiv) <i>Periodic Laplace-Beltrami operator with preassigned spectral gaps</i>
17:40-18:00	Sandrakov, G.V. (Taras Shevchenko National Kyiv University) <i>On Differential Equations in Plasticity Problems</i>
18:00-18:20	Pankratov, L. (Institute for Low Temperature Physics and Engineering, Kharkiv) <i>Homogenization of immiscible compressible two-phase flow in porous media</i>

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Session AN-II (22.08.2012)

Chairman: Molyboga, V.

15:00-15:20 Belokolos E.D. (Institute for Magnetism, Kiev)
Spectra of the Gaudin models

15:20-15:40 Zheltukhin, A.A. (Kharkov Institute of Physics and Technology)
On some nonlinear equations in (mem)brane dynamics

15:40-16:00 Gershun, V.D. (Akhiezer Institute for Theoretical Physics, Kharkiv)
Integrable WZNW models and string models of WZNW type with constant $SU(n)$, $SO(n)$, $SP(n)$ torsion and infinite hydrodynamic chains for $n \rightarrow \infty$

16:00-16:20 Mikhailets, V. (Institute of Mathematics, Kyiv)
Quasi-differential operators and boundary value problems

Coffee Break

Chairman: Mikhailets, V.

16:40-17:00 Molyboga, V. (Institute of Mathematics, Kyiv)
Spectral gaps of the Hill-Schrödinger operators with distributional potentials

17:00-17:20 Nazarov, A.I. (St. Petersburg State University)
Following the traces of I.M. Gelfand and B.M. Levitan

17:20-17:40 Kholkin, A.M. (Priazovsky State Technical University, Mariupol) and Rofe-Beketov, F.S. (Institute for Low Temperature Physics and Engineering, Kharkiv)
On spectrum of differential operators with a triangular matrix potential

17:40-18:00 Sloushch, V.A. (St. Petersburg State University)
Discrete spectrum of periodic Schroedinger operator with non-constant metric in the case of non-negative perturbations

18:00-18:20 Khrabustovskyi, V.I. (Ukrainian State Academy of Railway Transport, Kharkiv)
Analogs of generalized resolvents and eigenfunction expansions of relations generated by pair of differential operator expressions depending on spectral parameter nonlinearly

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Thursday, August 23	
Plenary Session	
Chairman: Tkachenko V.A.	
09:30-10:15	Aptekarev A. , Keldysh Institute for Applied Mathematics, Moscow, <i>"Spectral problems for difference operator of high order and multiple orthogonal polynomials ensembles"</i>
10:15-11:00	Shcherbina M. , Verkin Institute for Low Temperature Physics, Kharkiv, <i>"β-matrix models: expansions and universality"</i>
Coffee Break	
Chairman: Shcherbina M.	
11:15-12:00	Tkachenko V.A. , Ben Gurion University, <i>"Spectral theory of one-dimensional Hill operators with complex potential"</i>
12:00-12:45	Pavlov B. , S.-Petersburg University, <i>"Fitted zero-range solvable models as a tool of analytic perturbation procedure: from nano-electronics to seismology"</i>
12:45-13:30	Yampolsky M. , University of Toronto, <i>"The fixed point of parabolic renormalization"</i>
Lunch Break	

Session IP-III (23.08.2012)	
Chairman: Shepelsky D.	
15:00-15:20	Vakulenko A.F. (St-Petersburg Department of Steklov Mathematical Institute) <i>Riemann-Hilbert factorization of the three-dimensional scattering matrix and Lax-Phillips approach</i>
15:20-15:40	Huseynov H. (Baku State University) <i>The inverse scattering problem for the Dirac's operator with discontinuity condition</i>
15:40-16:00	Mahmudova M.H. (Baku State University) <i>Inverse Scattering Problem for Discrete Dirac Operator</i>
16:00-16:20	Zolotarev V.A. (Institute for Low Temperature Physics and Engineering, Kharkov) <i>Direct and inverse problems for operators with non-local potentials</i>
16:20-16:40	Zagorodnyuk S.M. (Kharkiv National University) <i>The direct and inverse spectral problems for some banded matrices</i>

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Session DE-IV (23.08.2012)

Chairman: Rybalko V.A.

15:00-15:20	Bazaliy B.V. and Vasylyeva N. (Inst. of Applied Mathematics and Mechanics, Donetsk) <i>The transmission problem in domains with a corner point for the Laplace operator in weighted Holder spaces</i>
15:20-15:40	Berezhnyi, M.A. (TU Darmstadt) <i>Discrete model of a non-symmetric elasticity theory</i>
15:40-16:00	Burskii, V.P. (Institute of Applied Mathematics and Mechanics, Donetsk) <i>On a generalized trigonometrical moment problem generated by boundary value problems for PDEs</i>
16:00-16:20	Kholomeeva, A.A. (Moscow State University) <i>About generalized solutions of some mixed problems for the wave equation</i>

Coffee Break

Chairman: Bazaliy B.V.

16:40-17:00	Anoshchenko O. and Egorov S. (Kharkiv National University) <i>Global weak solutions of the Navier-Stokes-Fokker-Planck-Poisson coupled equations</i>
17:00-17:20	Korniienko, A.A. (Taras Shevchenko National Kyiv University) <i>Asymptotic analysis of hierarchy of evolution equations of many-particles systems</i>
17:20-17:40	Rybalko, V.A. (Institute for Low Temperature Physics and Engineering, Kharkiv) <i>Spectral problems for singularly perturbed operators with oscillating coefficients</i>
17:40-18:00	Goncharenko M.V., Khruslov E.Ya. and Radyakin N.K. (Institute for Low Temperature Physics and Engineering, Kharkiv) <i>Nonstationary oscillations of elastic medium with a great number of small caverns full of viscous incompressible fluid</i>
18:00-18:20	Nishonova, S.T. (Fergana State University) <i>Об одной нелокальной задаче на собственные значения</i>
18:20-18:40	Ganzha E. (Krasnoyarsk State Pedagogical University) <i>On Laplace and Dini transformations for multidimensional linear partial differential equations</i>

Session AN-III (23.08.2012)

Chairman: Arlinskii, Yu.M.

15:00-15:20	Angermann L. (Technische Universitat Clausthal) and Yatsykv.V. (Usikov Institute of Radiophysics and Electronics, Kharkiv) <i>Self-consistent analysis of a system of nonlinear boundary-value problems arising in the modeling of resonance scattering and generation of waves by a cubically polarisable layered structure</i>
15:20-15:40	Malamud M.M. (Institute of Applied Mathematics and Mechanics, Donetsk) <i>De Brange spaces, singular integrals and finite-zone potentials</i>
15:40-16:00	Dryuma, V.S. (Institute of Mathematics and Computer Sciences, Kishinev) <i>Ricci-flat seven-dimensional space of affine connection associated with Navier-Stokes equations</i>
16:00-16:20	Borovchenkova M.S. (Taras Shevchenko National Kyiv University) <i>Infinite-Particle Systems with Dissipative Interaction</i>

Coffee Break

Chairman: Malamud M.M.

16:40-17:00	Arlinskii, Yu.M. (East-Ukrainian National University, Lugansk) <i>Truncated Hamburger moment problem for an operator measure with compact support</i>
17:00-17:20	Anaharci, B. (Sabanci University, Istanbul) <i>Refined asymptotics of the spectral gap for the Mathieu operator</i>
17:20-17:40	Batal, A. (Sabanci University, Istanbul) <i>Characterization of potential smoothness and Riesz basis property of the Hill-Schrödinger operator in terms of periodic, antiperiodic and Neumann spectra</i>
17:40-18:00	Aliiev, A.R. and Eyvazov, E.H. (Baku State University) <i>Essential spectrum of a magnetic Schrödinger operator in singular electric fields</i>
18:00-18:20	Sen E. (Istanbul Technical University) <i>Completeness of eigenfunctions of a Sturm-Liouville type problem</i>

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Friday, August 24	
Plenary Session	
Chairman: Chueshov I.D.	
09:30-10:15	Novokshenov V. , Institute of Mathematics, Ufa, <i>"Padé approximations of the Painlevé transcendents"</i>
10:15-11:00	Boutet de Monvel A. , University Paris-7, <i>TBA</i>
Coffee Break	
Chairman: Novokshenov V.	
11:15-12:00	Its A. , Indiana University - Purdue University Indianapolis, <i>"Asymptotic analysis of Toeplitz determinants. The Riemann-Hilbert approach"</i>
12:00-12:45	Chueshov I.D. , Kharkiv National University, <i>"Quasi-stable dissipative systems and nonlinear PDEs"</i>
12:45-13:30	Sodin M. , Tel Aviv University, <i>"Several results in harmonic and complex analysis which Vladimir Aleksandrovich might like"</i>
Lunch Break	

Session DE-V (24.08.2012)	
Chairman: Egorova I.	
15:00-15:20	Mogilevskii V.I. (Taras Shevchenko Lugansk National University) <i>Boundary conditions for general symmetric systems with arbitrary deficiency indices</i>
15:20-15:40	Sahobidinova O. (National University of Uzbekistan) <i>Nonlinear equations: integrability and asymptotic behavior of solutions</i>
15:40-16:00	Slyvka-Tylyshchak A.I. (Taras Shevchenko Kyiv National University) <i>Simulation a solution of a hyperbolic equations of mathematical physics with subgaussian random initial conditions</i>
16:00-16:20	Vasilyev V.B. (Lipetsk State Technical University) <i>Asymptotic expansion for solution of pseudo differential equation near singular point</i>
Coffee Break	
Chairman: Vasilyev V.B.	
16:40-17:00	Egorova I. (Institute for Low Temperature Physics and Engineering, Kharkiv) <i>Long-time asymptotics for the Korteweg-de Vries equation with steplike initial data</i>
17:00-17:20	Golubeva N. (Samara State Technical University) <i>Differential Equations with Integral Conditions</i>
17:20-17:40	Shcheglova Yu. (Voronezh State University) <i>On Differential Equations in Plasticity Problems</i>
17:40-18:00	Konechnaya N. (NArFU, Arkhangelsk) <i>Asymptotic integration of symmetric quasidifferential equations of second order</i>
18:00-18:20	Shepelsky D. (Institute for Low Temperature Physics and Engineering, Kharkiv) <i>Robin boundary condition and shock problem for the focusing nonlinear Schrödinger equation</i>
18:20-18:40	Anders, I. and Oksyuk, G. (Ukrainian State Academy of Railway Transport, Kharkiv) <i>Resonance solutions of modified KP equation</i>

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Session AN-IV (24.08.2012)	
Chairman: Dyukarev Yu.M.	
15:00-15:20	Arshava E.A. (Kharkiv National University of Civil Engineering and Architecture) <i>The integral equations solving by the operator identities method</i>
15:20-15:40	Lebid V. (Institute of Mathematics, Kyiv) <i>Scattering in PT -Symmetric Quantum Mechanics</i>
15:40-16:00	Il'inskaya I.P. and Neguritsa D.S. (Kharkiv National University) <i>Phase retrieval for probability measures on the group of Walsh functions</i>
16:00-16:20	Novikov I.Ya. (Voronezh State University) <i>Stationary and nonstationary biorthogonal wavelets</i>
Coffee Break	
Chairman: Il'inskaya I.P.	
16:40-17:00	Dyukarev Yu.M. (Kharkiv National University) <i>Block Jacobi matrices generating symmetric operators with arbitrary possible values of the deficiency numbers</i>
17:00-17:20	Oliynyk O.V. (Kharkiv National University) <i>The study of one class non-linear equations of a special kind</i>
17:20-17:40	Tesko V. (Institute of Mathematics, Kiev) <i>On a spectral representation of moment-type sequences</i>
17:40-18:00	Sewerin G. (Voronezh State University) <i>Orthonormal Compactly Supported Functions of Special Type</i>

Session AN-V (24.08.2012)	
Chairman: Korotkin D.	
15:00-15:20	Chistyakov, V.P. (Institute for System Dynamics and Control Theory) <i>On state of the art in theory of integral algebraic equations</i>
15:20-15:40	Korotkin, D. (Concordia University, Canada) <i>Bergman tau-function and its applications</i>
15:40-16:00	Bozorgnia, F. (Instituto Superior Tecnico, Lisbon) <i>Optimal partitions for first eigenvalues</i>
16:00-16:20	Mitrokhin S. (Moscow State University) <i>About spectral properties of differential operators with weight function</i>
Coffee Break	
16:40-17:00	Sasaki, I. (Shinshu University, Matsumoto, Japan) <i>Enhanced binding for the relativistic many body Nelson model</i>
17:00-17:20	