



DAYS on DIFFRACTION - 2006

May 30 – June 2, 2006, St.Petersburg, Russia

The Program

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<http://math.nw.ru/dd06/Program.pdf>

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Tuesday, May 30, 2006

St.Petersburg Branch of Steklov's Math. Inst.
(27 Fontanka Quay, downtown)

9⁰⁰ – 10⁰⁰ REGISTRATION AND COFFEE

Main Hall

10⁰⁰ – 10²⁰ OPENING ADDRESS

Main Hall

PARABOLIC EQ. METHOD			
Chair : Buldyrev V.S.		Main Hall	Chair: Hall 311
10 ²⁰ – 10 ⁴⁰	Babich V.M.	On the history of the parabolic-equation method	<i>Reserved</i>
10 ⁴⁰ – 11 ¹⁰	Popov A.V., Zapunidi S.A.	A Physical Picture of Wedge Diffraction: Generalization of Traversal Diffusion Method	<i>Reserved</i>
11 ¹⁰ – 11 ⁴⁰	Kiselev A.P.	Localized Solutions of the Wave Equation: Paraxial and Exact Theories	<i>Reserved</i>

11⁴⁰ – 12¹⁰ COFFEE BREAK

Main Hall

SCATTERING & DIFFRACTION (I)		COMPUTATIONAL ASPECTS	
Chair: Lyalinov M.A.		Main Hall	Chair: Kaiser G. Hall 311
12 ¹⁰ – 12 ⁴⁰	Borovikov V.A.	Scattering of a Flexural Plane Wave by the Thin Elastic Quarter Plane in the Case of Pinched Boundary	Shabanov S.V. Wave Packet Propagation by the Faber Polynomial Approximation in Electrodynamics of Passive Media
12 ⁴⁰ – 12 ⁵⁵	Antipov Yu.A., Silvestrov V.V.	Difference Equations with Periodic Coefficients in Diffraction Theory	Perel M.V., Sidorenko M.S. New Physical Wavelets
12 ⁵⁵ – 13 ¹⁰			Fay T.H., Joubert S.V., Kloppers P.H. A Probabilistic Approach to Function Approximation
12 ¹⁰ – 13 ³⁰	Kouzov D.P., Solov'eva Yu.A.	Diffraction of Plane Short-Time Variable on the Front Shock Wave on a Semi-Infinite Screen	Porubov A.V., Bouche D., Bonnaud G. Use of Asymptotic Solutions of Differential Approximations for Improvement of the Schemes

13³⁰ – 15³⁰**LUNCH**

PARABOLIC EQ. & NONLINEARITY <i>Chair: Rosanov N.N.</i> Main Hall		MATHEMATICAL ASPECTS <i>Chair: Smolaynov O.</i> Hall 311	
15 ³⁰ – 16 ⁰⁰	Vlasov S.N., Koposova E.V., Talanov V.I.	Use of Decomposition of the Wave Equations and Pseudo-Differential Operators for the Description Nonparaxial Beams and Broadband Packages of Waves	Melgaard M. Strong Asymptotic Completeness for a Quantum Wire: Time-Dependent Approach
16 ⁰⁰ – 16 ¹⁵	Bogomolov Ya.L., Yunakovsky A.D.	Split-step Fourier Method for Nonlinear Schrodinger Equation	Merzon A.E. On the Connection Between Stationary and Nonstationary Diffraction Problems on Wedges

16¹⁵ – 16³⁰**SHORT BREAK**[Main Hall](#)

SCATTERING & DIFFRACTION (II) <i>Chair: Antipov Yu.A.</i> Main Hall		ELASTIC WAVES <i>Chair: Joubert S.</i> Hall 311	
16 ³⁰ – 17 ⁰⁰	Laval D., Molinet F., Stéve H., Tort S.	Diffraction by a Strongly Elongated Object Illuminated by an Electromagnetic Plane Wave Propagating in the Paraxial Direction – Application to a Prolate Ellipsoid	<i>Canceled</i> Modeling Stable and Unstable Shear Layers as Infinitesimally Thin
17 ⁰⁰ – 17 ¹⁵	Olmos Lopez O., Tar Ortiz Peralta J.A., Sumaya Martinez J., Mata Mendez O.	Near and Far Field Diffraction by Highly Conducting Wire Gratings	Babich V.M., Poskryakov A.V.
17 ¹⁵ – 17 ³⁰			Bona A., Slawinski M.A.
17 ³⁰ – 17 ⁴⁵	Dagurov P.N., Dmitriev A.V.	Kirchhoff- Fresnel Diffraction on a Conducting Strip	Bona A., Slawinski M.A.
17 ⁴⁵ – 18 ⁰⁰	Chernitskii A.A.	Wave Scattering on Dyon in Nonlinear (Born-Infeld) Electrodynamics	Molotkov L.A.
			On Quasiphotons of Rayleigh Waves (Anisotropic Elastic Body Case)
			Wavefront Versus Material Symmetries
			Coordinate Free Classification of Symmetry Class of Elasticity Tensors
			Investigation of Wave Field in Effective Model of Layered Elastic-Fluid Medium

Wednesday, May 31, 2006

St.Petersburg Branch of Steklov's Math. Inst.
(27 Fontanka Quay, downtown)

MATHEMATICS OF QUANTUM MECHANICS		NONLINEAR PROBLEMS (I)			
<i>Chair: Melgaard M.</i>		<u>Main Hall</u>		<i>Chair: Konyukhova N.B.</i>	<u>Hall 311</u>
9 ⁰⁰ - 9 ³⁰	Borzov V.V., Damaskinsky E.V.	Coherent States of Krawtchouk Oscillator and Beyond	Kryvko A., Kucherenko V.V.	On Stability of Nonlinear Equation	
9 ³⁰ - 10 ⁰⁰	Smolyanov O.G.	Quantum Bellman type equations	Trifonov A.Yu., Litvinets F.N., Belov V.V.	Spectral Problem for the Hartree Type Operator	
10 ⁰⁰ - 10 ¹⁵	Butko Ya.A.	Feynman-Kac-Ito Formula for Infinite Dimensional Schrodinger Equation with Scalar and Vector Potentials	Belov V.V., Smirnova E.I., Trifonov A.Yu.	Asymptotic Soliton-Type Solutions of the Hartree Equation	
10 ¹⁵ - 10 ³⁰	Gortinskaya L.V., Levin S.B., Malina N.A., Popov I.Yu., Tesovskaya E.S.	Many Particles Problems for Quantum Layers	Litvinets F.N., Shapovalov A.V., Trifonov A.Yu.	Berry Phases for the Multidimensional Nonlocal Gross-Pitaevskii Equation with a Quadratic Potential	
10 ³⁰ - 10 ⁴⁵			<i>Canceled</i>	Increasing of Complexity in Nonlinear Systems	

10⁴⁵ - 11¹⁵

COFFEE BREAK

[Main Hall](#)

SCATTERING & DIFFRACTION (III)		NONLINEAR PROBLEMS (II)			
<i>Chair: Sumaya Martinez J.</i>		<u>Main Hall</u>		<i>Chair: Grikurov V.E.</i>	<u>Hall 311</u>
11 ¹⁵ - 11 ⁴⁵	Vesnik M.V.	Method of Generalized Eikonal as a New Approach to Diffraction Process Description	Rosanov N.N., Fedorov S.V., Shatsev A.N.	Motion of Complexes of Laser Solitons	
11 ⁴⁵ - 12 ¹⁵	Pouliguen Ph., Hemon R., Saillard J., Damiens J.F.	RCS Computation in Near Field	Konyukhova N.B., Dyshko A.L., Kurochkin S.V.	On Nonlinear Ginzburg-Landau Boundary Value Problem for a Superconducting Plate in a Magnetic Field	
12 ¹⁵ - 12 ³⁰	Abdulkadyrov V.A., Gestrina G.N.	Electromagnetic Wave Diffraction on the Set of Periodic Shields Located in the Vicinity of Plasma-Like Medium	Makin R.S.	About Existing of an Inertial Manifolds for One Class of Evolution Equation	

12³⁰ – 14³⁰ LUNCH

	WAVES IN LAYERED & STRATIFIED MEDIA		PROPAGATION OF E/M WAVES (I)	
	<i>Chair: Slawinski M.A.</i>		<i>Chair: Lindell I.</i>	
	<u>Main Hall</u>		<u>Hall 311</u>	
14 ³⁰ – 14 ⁴⁵	Larichev V.A., Maksimov G.A.	Solution of the Inverse Dynamical Problem for Reconstruction of Thin-Layered Strata	Granet G., Edee K., Plumey J.-P., Chandezon J.	Radiation of a Dipole Source in the Presence of a Rough Surface: a New Formulation Based On Curvilinear Complex Coordinates
14 ⁴⁵ – 15 ⁰⁰	Solovchuk M.A., Leble S.B.	Two-Side Distribution Function and WKB Solutions for Ultrasound at Stratified Gas	Borisov V.V.	On Some Solutions of Temporal Dependence of the Velocities of the Pulse Sources
15 ⁰⁰ – 15 ¹⁵	Rogacheva N.N., Kochetkov I.D.	Multilayer Piezoelectric Actuators	Bogdashov A., Denisov G.	Synthesis of Phase Corrector Sequence Forming the Desired Wave Beam Structure
15 ¹⁵ – 15 ³⁰	Logacheva E.I., Makin V.S., Kohns P., Trubaev V.V.	Negative Dispersion Cylindrical Surface Plasmon-Polaritons in Layered Media	Bogomolov Ya.L., Semenov E.S., Yunakovsky A.D.	Symmetric and Skew-Symmetric Solutions Arising in an Accelerating Channel of a Supercollider

15³⁰ – 16⁰⁰ COFFEE BREAK

[Main Hall](#)

ASYMPTOTIC TECHNIQUE		SHOCK WAVES & PULSES		
<i>Chair: Babich V.M.</i>		<i>Chair: Tirozzi B.</i>		
<u>Main Hall</u>		<u>Hall 311</u>		
16 ⁰⁰ – 16 ³⁰	Nazarov S.A.	On the Asymptotics of the Spectrum of the Three-Dimensional Neumann Problem with Concentration of Masses Along a Contour	Garcia Alvarado M.G., Omel'yanov G.A.	Interaction of Kinks and Anti-Kinks for Semilinear Wave Equations with a Small Parameter
16 ³⁰ – 16 ⁴⁵	Galtsev S.L., Shafarevich A.I.	Bohr-Sommerfeld-Maslov Conditions in Riemann Surfaces, Spectral Graphs and Pseudospectrum of Schrodinger Operator with Complex Periodic Potential	Shelkovich V.M.	The Riemann Problem Admitting δ -, δ' -shocks and Vacuum States
16 ⁴⁵ – 17 ⁰⁰			Mitrovic D.	Singularity Formation for a Pressureless Gas Dynamics System of Conservation Laws
17 ⁰⁰ – 17 ¹⁵	Bikmetov A.R.	On a Schrodinger Operator with a Large Potential Concentrated on a Small Set	Mokhnatova O.A., Kozlov S.A. Berkovsky A.N.	Nonlinear Paraxial Reflection of Few-Cycle Pulses from Dielectrics
17 ¹⁵ – 17 ³⁰	Danilov V.G., Frolovichev S.M.	Asymptotics of Linear Problems with Pure Imaginary Characteristics	QUANTUM GRAPHS & WIRES	
			<i>Chair: Dobrokhotov S.Yu.</i>	
17 ³⁰ – 17 ⁴⁵	Pokrovski A.	Asymptotic Inverse Problem for Almost-Periodically Perturbed Quantum Harmonic Oscillator	<u>Hall 311</u>	
			Brüning J., Grikurov V.	Quantum Graphs: from Scattering on Decorated Graph to Junction Conditions
17 ⁴⁵ – 18 ⁰⁰	<i>Canceled</i>	<i>Study of Porous Materials by Acoustic Microscopy</i>	Chernyshev V.L., Shafarevich A.I.	Geometrical Properties and Semi-Classical Asymptotics for Schroedinger Equations on Quantum Graphs
			<i>Canceled</i>	
			<i>Integrable Models of the Longitudinal Motion of Electrons in Curved 3D-Nanotubes</i>	

Thursday, June 1, 2006

St.Petersburg Branch of Steklov's Math. Inst.
(27 Fontanka Quay, downtown)

		METAMATERIALS: Periodical Structures	SOUND & VIBRATION	
		<i>Chair: Belov P.A.</i>	<i>Chair: Andronov I.V.</i>	
		Main Hall	Hall 311	
$9^{00} - 9^{30}$	<i>Canceled</i>	Left-Handed Materials Based upon Photonic Crystals	Fedotov I., Shatalov M., Joubert S.	Acoustic Scattering of a Rotating Transversely Isotropic Cylinder Insonified by a Plane Obliquely Incident Wave
$9^{30} - 9^{45}$	Simovski C.R., Tretyakov S.A.	On the Homogenization of Artificial Lattices	Joubert S., Shatalov M., Fedotov I., Voges E.	Precession of Elastic Waves in Vibrating Isotropic Spheres and Transversely Isotropic Cylinders Subjected to an Inertial Rotation
$9^{45} - 10^{00}$			Shatalov M., Fedotov I., Joubert S.	A Novel Approach to the Helmholtz Integral Equation Solution by Fourier Series Expansion for Acoustic Radiation and Scattering Problems
$10^{00} - 10^{30}$	Silin R.A.	Electromagnetic Waves in Artificial Periodic Structures	Yufereva L.M., Lavrov Yu.A.	Natural Oscillations of a Rectangular Acoustic Volume with Elastic Walls

$10^{30} - 11^{00}$ **COFFEE BREAK**

	METAMATERIALS: Left-Handed Media <i>Chair: Marques R.</i> Main Hall		PROPAGATION OF E/M WAVES (II) <i>Chair: Chandeson J.</i> Hall 311	
11 ⁰⁰ – 11 ³⁰	Sukhorukov A.A., Shadrivov I.V., Kivshar Yu.S.	Complex Singularities of Fields on Metamaterial Wedges	Lukin K.A., Harmuth H.F.	Dipole Currents and Interstellar Propagation of Electromagnetic Signals
11 ³⁰ – 11 ⁴⁵	Seetharamdoo D., Tarot A.-C., Mahdjoubi K., Sauleau R.	Limitations on the Effective Parameters of Resonant and Low Loss Negative Refractive Index Metamaterials	Babich V.M., Kuznetsov A.V.	On the Propagation of Surface Electromagnetic Waves, Similar to Rayleigh Waves in the Case the Leontovich Boundary Conditions
11 ⁴⁵ – 12 ⁰⁰	Odit M., Kolmakov I., Vendik O., Vendik I.	Modeling Isotropic Artificial Media with Simultaneously Negative Permittivity and Permeability	Sukhorukov A.P., Lobanov V.E., Kalinovich A.A.	Parametric Refraction and Reflection of Optical Beams
12 ⁰⁰ – 12 ³⁰	Vinogradov A.P., Merzlikin A.M., Dorofeenko A.V.	Full Wave Analysis of Imaging by the Pendry- Ramakrishna Single-Layer and Stackable Lenses	Potapov A.A.	Modern Classes of Fractal Antennas and Fractal Frequency Selective Surfaces and Volumes

12³⁰ – 14³⁰ **LUNCH**

	METAMATERIALS: Sub-Wavelength Imaging <i>Chair: Tretyakov S.A.</i> Main Hall		WATER WAVES <i>Chair: Shafarevich A.</i> Hall 311	
14 ³⁰ – 15 ⁰⁰	Marques R., Freire M.J., Mesa F., Baena J.D.	Theory of Three-Dimensional Sub- Diffraction Imaging in Metamaterial Super- Lenses	Dobrokhotov S.Yu., Sekerzh-Zenkovich S., Tirozzi B.	The Behavior Near the Focal Points of Solutions to the 2-D Wave Equation with Fast Decaying Initial Data
15 ⁰⁰ – 15 ³⁰	Maslovski S.I.	Resonant Enhancement of Evanescent Electromagnetic Waves in Passive Structures	Dobrokhotov S.Yu., Sekerzh-Zenkovich S., Tirozzi B.	Asymptotic Solutions to 2-D Wave Equation with Time-Depending Localized Sources and Their Application to Tsunami Problems
15 ³⁰ – 15 ⁴⁵	Belov P., Sudhakaran S., Simovski C.R., Hao Y.	Sub-Wavelength Imaging without Negative Refraction and Amplification of Evanescent Waves	Motygin O.V.	A Criterion of Uniqueness for Linear Water-Wave Problems
15 ⁴⁵ – 16 ⁰⁰			Maksimov G.A.	On Variational Principle in Dissipative Hydrodynamics

16⁰⁰ – 16³⁰ **COFFEE BREAK**

[Main Hall](#)

	METAMATERIALS: Modeling of Metamaterials <i>Chair: Simovski C.R.</i> Main Hall		PROPAGATION OF E/M WAVES (III) <i>Chair: Popov A.V.</i> Hall 311	
16 ³⁰ – 17 ⁰⁰	Lindell I.V., Sihvola A.H.	Realization of Impedance Surface in Terms of a Slab of Metamaterial	Chandezon J. Granet G., Plumey J.-P.	Propagation In Periodic Medium: Use of Tools of Quantum Mechanics
17 ⁰⁰ – 17 ¹⁵	Butylkin V., Kraftmakher G.	Waveguide-Bianisotropic Metamaterial with DNG and DPS Pass-Bands	Kogan L.P.	Electromagnetic Waves Propagation in the Half-Space with a Homogeneous Smooth Disturbance of the Boundaries Impedance
17 ¹⁵ – 17 ³⁰			Kudrin A.V., Petrov E.Yu., Zaboronkova T.M.	Eigenfunction Expansions of Source- Excited Electromagnetic Fields in Cylindrically Stratified Unbounded Gyrotropic Media
17 ³⁰ – 17 ⁴⁵	Zhao Y., Belov P., Hao Y.	Spatially Dispersive FDTD Method for Numerical Verification of Sub-Wavelength Imaging by Wire Medium	Aksenova E.V., Kryukov E.V., Romanov V.P.	Light Propagation in Helicoidal Media with Large Periodicity
17 ⁴⁵ – 18 ⁰⁰	Zhuang F., Shen J.Q.	Controllable Bandgap Structures in an EIT Periodic Material	Vozianova A.V., Nerukh A.G., Ruzhytska S.V.	6D Resolvent to Initial problems for Maxwell's equations

Friday, June 2, 2006

**Inst. on Physics of St.Petersburg Univ.
(Petrodvoretz campus)**

**Departure of bus to the Petrodvoretz campus:
8¹⁵, 27 Fontanka Quay (in front of Math.Inst.)**

PLENARY SESSION		
Chair: <i>Kiselev A.P.</i>		
<u>Conference Hall</u>		
9⁴⁵ – 10³⁰	Kaiser G.	Extended Wave Propagators as Pulsed-Beam Communication Channels

10³⁰ – 11³⁰ POSTER SESSION AND COFFEE

[Entrance Hall](#)

Blagovestchenskii A.S., Fedorenko D.A.	Inverse Problem of Acoustic Wave Propagation in a Structure with Weak Lateral Inhomogeneity	Gorbatsevich F.F., Il'chenko V.L.	The Phenomenon of Linear Acoustic Anisotropic Absorption Observed on a Model with an Angular Unconformity with Elastic Symmetry Elements
Lukin K.A.	Evolution of Wave Packet in Quantum Box: Novel Approach to the Problem	Alekseev D.P., Lapin V.G.	Scattering of Electromagnetic Impulse on the Standing Ion-Acoustic Wave Forced by the Powerful Electromagnetic Wave in the Liner Plasma Layer

Kot P.N., Yufereva L.M., Lavrov Yu.A.	Influence of Extensional Movements of Face Elastic Walls on Free Oscillations of a Cylindrical Acoustic Resonator	Atutov E.B., Vetluzhsky A.Yu., Lomukhin Yu.L.	Attenuation of Waves in the Forest Medium
Sukhorukov A.P., Yangirova V.V.	Optical Screw Phase Dislocations in Space-Time Domain	Il'chenko V.L.	On the Polarized Ultrasound Distribution along Elements of Symmetry of the Polarized Anisotropic Media
Silin R.A.	Unusual Laws of the Refraction and Reflection	Makin V.S., Pestov Yu.I., Kohns P.	Temperature Dependence of Surface Electromagnetic Wave Attenuation on Nickel
Atutov E.B., Vetluzhsky A.Yu., Lomukhin Yu.L.	Localization of Radiation Near Border of the Stochastic Discrete Medium	Makin R.S.	About One Nonlinear Spectral Problem
Yashina N.F., Zaboronkova T.M.	Electromagnetic Surface Waves Guided by the Isotropic Plasma - Chiral Medium Boundary	Yatsyk V.V.	Susceptibility and Resonant Scattering of Intensive Electromagnetic Fields of Waves by the Weakly Nonlinear Dielectric Layer a Kerr-like Nonlinearity
Plachenov A.B., Kudashov V.N., Radin A.M.	Analytical Way of Construction of the Fundamental Mode the Resonator as Gauss the Beam with Complicated Astigmatism	Utkin A.B.	Electromagnetic Waves Generated by Line Exponentially Decaying Current Pulses
Moiseenko I.A., Troyan R.R.	The Analysis of Full Spectra of Normal Elastic Waves in Homogeneous and Inhomogeneous Anisotropic Cylindrical Waveguides of Complex Cross-Section	Kryvko A., Kucherenko V.V.	Semiclassical Asymptotics of Eigenvalue for Vector Sturm-Liouville Problem
Makin V.S., Smirnov D.S., Kohns P.	Negative Dispersion Cylindrical Surface Plasmon-Polaritons in Spatially Inhomogeneous Dielectric Permittivity Media	Rezaev R.O., Bezverbny A.V., Trifonov A.Yu.	Semiclassically-Concentrated Solutions for the Multidimensional Nonlinear Fokker-Plank-Kolmogorov Equation with Quadratic Potential
Simonenko I.I.	Transient Waves Produced by a Periodically Expanding Sphere	Borovikov V.A.	Nonstationary Problem of Thin Elastic Plate Oscillations
Vsemirnova E.A.	Love Waves Effects on Microtremor H/V Spectra	Tran X.Tr., Rosanov N.N.	Conservative and Dissipative Fiber Bragg Solitons
Mokeyeva N.V.	A Correctness of the Diffraction Problems in Case of Angle Domains	Rosanov N.N., Semenov V.E., Vysotina N.V., Kiselev A.I.S., Kiselev An.S.	Amplified Self-Induced Transparency and Few Cycle Pulses and Dissipative Solitons

Vinokurov A.A., Farafonov V.G.	Scattering of Electro-Magnetic Radiation by a Coated Perfectly Conducting Axisymmetric Body	Valiev F.F.	Field of the Current Pulse Moving along the Straight Line with Super Light Velocity
Popov M., Semtchenok N., Verdel A., Popov P.	Gaussian beam Migration of Multi-Valued Zero-Offset Data	Makin V.S., Logacheva E.I., Trubaev V.V.	The Fields Generated by Finite Size Input Grating Coupler in Conditions of SEW Excitation

PLENARY SESSION		
Chair: Kiselev A.P.		<u>Conference Hall</u>
11³⁰ – 12¹⁵	Viitanen A.J., Simovski C.R., Tretyakov S.A.	Metawaveguides and Metaresonators Formed by Arrays of Resonating Particles
12¹⁵ – 13⁰⁰	Danilov V.G.	Weak Approximation of Nonlinear Wave Interaction
	CLOSING	

13⁰⁰ - 14³⁰ LUNCH

14³⁰ - 18⁰⁰ EXCURSION

[Petrodvoretz Gardens](#)

18⁰⁰ - ? PICNIC PARTY

[Woods near the campus](#)

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