



**DAYS on DIFFRACTION - 2005**

*June 28 – July 1, 2005, St.Petersburg, Russia*

**The Program**

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<http://math.nw.ru/dd05/Program.pdf>

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**Tuesday, June 28, 2005**

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

**8<sup>30</sup> – 9<sup>30</sup> REGISTRATION AND COFFEE**

**Main Hall**

**9<sup>30</sup> – 9<sup>40</sup> OPENING ADDRESS**

**Main Hall**

	<b>LOCALIZED SOLUTIONS</b>			
	<i>Chair: Buldyrev V.S.</i>		<b>Main Hall</b>	<i>Chair:</i>
				<b>Hall 311</b>
9 <sup>40</sup> – 10 <sup>10</sup>	Babich V.M.	<i>New approach to the quasi-photon theory</i>	<i>Reserved</i>	
10 <sup>10</sup> – 10 <sup>40</sup>	Gladkov P.A., Mikhasev G.I.	<i>Wave packets in elastic flat bent waveguide</i>	Atamaniuk B., Turski A.J.	<i>Applications of fractional derivative analysis to some electromagnetic problems</i>

**10<sup>40</sup> – 11<sup>00</sup> COFFEE BREAK**

**Main Hall**

	<b>PHYSICAL APPROACHES</b>		<b>MATHEMATICAL APPROACHES</b>	
	<i>Chair: Chávez-Cerda S.</i>		<i>Chair: Schürmann H. W.</i>	
				<b>Hall 311</b>
11 <sup>00</sup> – 11 <sup>30</sup>	Oleschko K., Brambila F., Pérez Pascual R., Parrot J.-F.	<i>The distribution of gaps between prime numbers: physical approach</i>	Smolyanov O.G.	<i>Feynman formulas for the statistical Hopf equation</i>
11 <sup>30</sup> – 12 <sup>00</sup>	Walker W.D.	<i>Theoretical, numerical, and experimental evidence of superluminal electromagnetic and gravitational fields generated in the near field of dipole sources</i>	Pavlov Yu.V.	<i>On Duffin-Kemmer-Petiau equation in curved space-time</i>
12 <sup>00</sup> – 12 <sup>30</sup>	Godin O.A., Voronovich A.G.	<i>Fermat's principle for waves in nonstationary media</i>	Kazakov O.A.	<i>Application of Lagrange structures for analyses of electromagnetic wave fields to reflection of the plane monochromatic waves problem</i>
12 <sup>30</sup> – 13 <sup>00</sup>	Borisov V.V.	<i>Waves produced by a source on the moving and expanding circular frame</i>	Kyriakos A.G.	<i>Curvilinear Wave Electrodynamics (CWED) - electrodynamics of electromagnetic waves, propagating along curvilinear trajectories</i>

**13<sup>00</sup> - 15<sup>00</sup> LUNCH**

<b>BEAM-LIKE SOLUTIONS AND APPLICATIONS</b> <i>Chair: Büyükaksoy A.</i> <a href="#">Main Hall</a>		<b>SHOCK WAVES AND SHORT PULSES</b> <i>Chair: Danilov V.G.</i> <a href="#">Hall 311</a>	
15 <sup>00</sup> – 15 <sup>30</sup>	Chávez-Cerda S.	<i>Mathematical physics of “nondiffracting beams”</i>	Omel'yanov G. <i>A uniform in time asymptotic for the problem of centered rarefaction appearance</i>
15 <sup>30</sup> – 15 <sup>45</sup>	Bandres M.A., Gutiérrez-Vega J.C.	<i>Generalized Ince-Gaussian beams</i>	Panov E.Yu., Shelkovich V.M. <i>δ-shock wave type solutions of hyperbolic systems of conservation laws</i>
15 <sup>45</sup> – 16 <sup>00</sup>			Larichev V.A., Maksimov G.A. <i>Propagation of a short pulse in a medium with a resonance relaxation</i>
16 <sup>00</sup> – 16 <sup>15</sup>	Protasov M.I., Tcheverda V.A.	<i>True amplitude Gaussian beam imaging</i>	Petronyuk Yu.S., Levin V.M. <i>Effects of elastic anisotropy in reflection of short pulses of focused ultrasound from uniaxial plates</i>

16<sup>15</sup> – 16<sup>45</sup>**COFFEE BREAK**[Main Hall](#)

<b>WATER WAVES</b> <i>Chair: Kucherenko V.V.</i> <a href="#">Main Hall</a>		<b>ACOUSTIC, ELASTIC AND SEISMIC WAVES</b> <i>Chair: Lobo M.</i> <a href="#">Hall 311</a>	
16 <sup>45</sup> – 17 <sup>15</sup>	Dobrokhotov S.Yu.	<i>Fronts and profiles of the waves in 2-D inhomogeneous dispersionless media created by localized sources</i>	Molotkov L.A. <i>On attenuation of waves propagating in fluid mixtures</i>
17 <sup>15</sup> – 17 <sup>45</sup>	Tirozzi B.	<i>Analytical and numerical analysis of the wave profiles near the fronts appearing in tsunami problems</i>	Kashtan B., Bakulin A., Ziatdinov S., Golovkina S. <i>Radiation of seismic waves from a source in a fluid-filled borehole surrounded by infinite poroelastic medium</i>
17 <sup>45</sup> – 18 <sup>00</sup>	Bora S.N.	<i>Reflection and transmission of water waves over an uneven ocean bed</i>	Podyachev E.V., Maximov G.A., Ortega E. <i>Analysis of parametrical dependencies of Stoneley wave attenuation in fluid-filled borehole due to its scattering on rough well surface</i>
18 <sup>00</sup> – 18 <sup>15</sup>			Derov A.V., Maximov G.A. <i>Wave field excitation in thin fluid-filled crack of finite size and its interaction with a borehole</i>
18 <sup>15</sup> – 18 <sup>30</sup>	Semenov E.S., Shafarevich A.I., Tirozzi B., Dobrokhotov S.Yu.	<i>Propagation of localized perturbations of the hydrodynamics equations with variable Coriolis parameter</i>	Solovchuk M.A., Leble S.B. <i>Piecewise continuous distribution function method and ultrasound at half-plane</i>

**Wednesday, June 29, 2005**

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

<b>WAVEGUIDE AND PLASMA WAVES</b>		<b>ASYMPTOTIC TECHNIQUE</b>		
<i>Chair: Zhu N.Y.</i>		<i>Chair: Omel'yanov G.</i>		
<a href="#"><u>Main Hall</u></a>		<a href="#"><u>Hall 311</u></a>		
9 <sup>00</sup> - 9 <sup>30</sup>	Georgiev G.N., Georgieva-Grosse M.N.	<i>New elements in the theory of the coaxial waveguide with azimuthally magnetized ferrite</i>	Kiselev A.P., Klimova A.A.	<i>Far field of a point source acting on a half-space covered by an inhomogeneous layer</i>
9 <sup>30</sup> - 10 <sup>00</sup>	Kudrin A.V., Es'kin V.A., Lyakh M.Yu., Zaboronkova T.M.	<i>Damping of whistler modes guided by a lossy anisotropic plasma cylinder</i>	Kryvko A., Kucherenko V.V.	<i>Asymptotic solutions of real symmetric systems with multiplicity</i>
10 <sup>00</sup> - 10 <sup>30</sup>	Schürmann H. W., Smirnov Y., Shestopalov Y.	<i>Analysis of the TE-wave propagation in nonlinear dielectric waveguides using the method of nonlinear integral equations</i>	Gortinskaya L.V., Popov I.Yu., Tesovskaya E.S.	<i>Spectral asymptotics for layered magnetic structures</i>
10 <sup>30</sup> - 10 <sup>45</sup>	Leble S.B., Rohraff D.W.	<i>Nonlinear evolution of components of electromagnetic field of helicoidal wave in plasma</i>	Rabinovich V.S.	<i>Wave propagation in optical waveguides with slowly varying geometry</i>

10<sup>45</sup> - 11<sup>15</sup>

**COFFEE BREAK**

[Main Hall](#)

<b>PLATES AND VIBRATIONS</b>		<b>INVERSE PROBLEMS</b>		
<i>Chair: Molotkov L.A.</i>		<i>Chair: Walker W.D.</i>		
<a href="#"><u>Main Hall</u></a>		<a href="#"><u>Hall 311</u></a>		
11 <sup>15</sup> - 11 <sup>45</sup>	Fedotov I., Gai Y., Joubert S., Shatalov M.	<i>Rayleigh model of vibrations of n-stepped bar</i>	Piskarov V., Wagner J., Hempelmann R.	<i>Deconvolution of instrumental functions in X-ray diffractometry by using the regularization technique</i>
11 <sup>45</sup> - 12 <sup>15</sup>	Shestopalov Y., Kotik N.	<i>Analysis of mixed boundary-value problems for a system of elliptic equations in the layer associated with boundary-contact problems of elasticity</i>	Kiselev Yu.V., Trojan V.N.	<i>Restoration of electrical conductivity and elastic parameters by iterative approach</i>
12 <sup>15</sup> - 12 <sup>30</sup>	Loktev A.A., Rossikhin Yu. A., Shitikova M.V.	<i>Viscoelastic model of impact excitation of a solid body and thin plate</i>	Basarab M.A., Kravchenko V.F.	<i>Application of the R-functions method for solving a mixed inverse diffraction problem</i>

12<sup>30</sup> - 14<sup>30</sup>

**LUNCH**

<b>SOLUTIONS TO NONLINEAR EQUATIONS</b> <i>Chair: Biswas A.</i> <a href="#">Main Hall</a>		<b>RIGOROUS RESULTS</b> <i>Chair: Shestopalov Y.</i> <a href="#">Hall 311</a>		
14 <sup>30</sup> - 15 <sup>00</sup>	Nickel J., Serov V.S., Schürmann H.W.	<i>Some elliptic traveling wave solutions to the Novikov-Veselov equation</i>	Fedotov I., Gai Y., Joubert S.	<i>Problems of diffraction type for pseudo-differential operators</i>
15 <sup>00</sup> - 15 <sup>30</sup>	Lisok A.L., Trifonov A.Yu., Shapovalov A.V.	<i>Evolution operator for the multidimensional nonlinear Hartree-type equation with quadratic potential</i>	Antonets M.A., Ponomareva L.V.	<i>Closed extensions of the Maxwell operator for impedance boundary condition</i>
15 <sup>30</sup> - 15 <sup>45</sup>	Litvinets F.N., Shapovalov A.V., Trifonov A.Yu.	<i>The Hartree type equation with quadratic potential in adiabatic approximation and Berry phase</i>	Merzon A.E.	<i>Limiting amplitude principle in diffraction on a wedge</i>
15 <sup>45</sup> - 16 <sup>00</sup>	Vakulenko S.A., Abramian A.A.	<i>Stability of patterns under random perturbations</i>	Khekalo S.	<i>The heat source on the matrix space</i>

16<sup>00</sup> - 16<sup>30</sup> **COFFEE BREAK**

[Main Hall](#)

<b>MATHEMATICAL ASPECTS RELATED TO WAVE PHENOMENA</b> <i>Chair: Nickel J.</i> <a href="#">Main Hall</a>		<b>EXPERIMENTAL STUDY OF WAVE PHENOMENA</b> <i>Chair: Levin V.M.</i> <a href="#">Hall 311</a>		
16 <sup>30</sup> - 17 <sup>00</sup>	Karasev M.	<i>Noncommutative nano- and micro-structures in resonance wave channels</i>	Makin V.S., Pestov Yu. I.	<i>About polariton model of laser-induced condensed-matter surface damage</i>
17 <sup>00</sup> - 17 <sup>30</sup>	Danilov V.G.	<i>Interaction of free boundaries</i>	Doghmane A., Hadjoub I., Bouhedja S., Hadjoub Z.	<i>Comparative micro-acoustic investigations of elastic properties of nano-, poly- and crystalline-silicon thin films</i>
17 <sup>30</sup> - 17 <sup>45</sup>	Badanin A.	<i>Spectral properties of the fourth order operator with the periodic <math>\delta</math>-potential</i>	Hadjoub Z., Bouhedja S., Hadjoub I., Doghmane A.	<i>Dark field s.a.m. investigations of surface acoustic wave propagation in solid material (to be given in French)</i>
17 <sup>45</sup> - 18 <sup>00</sup>	Borzov V.V., Damaskinsky E.V.	<i>Uncertainty relations for generalized oscillators</i>		

Thursday, June 30, 2005

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

SCATTERING AND DIFFRACTION Chair: Lyalinov M.A. <a href="#">Main Hall</a>			NUMERICAL APPROACHES Chair: Grikurov V.E. <a href="#">Hall 311</a>	
9 <sup>00</sup> - 9 <sup>30</sup>	Verbitskii I.L.	<i>Analytical solution to the diffraction on a slot</i>	Shabanov S.V.	<i>Lanczos-Arnoldi pseudospectral method for initial value problems in electrodynamics and its applications</i>
9 <sup>30</sup> - 10 <sup>00</sup>	Zhu N.Y.	<i>Plane wave diffraction by a semi-infinite impedance sheet attached to an impedance wedge</i>	Podgornova O.V., Sofronov I.L.	<i>Toward efficient numerical generation of low-reflecting boundary conditions for anisotropic media</i>
10 <sup>00</sup> - 10 <sup>15</sup>	Koposova E.V., Vlasov S.N.	<i>Diffraction by a corrugated interface: the regularities of complete transformation of an incident plane wave to the diffraction lobe with influence of profile corrugation form</i>	Sadov S., Kondratieva M.	<i>Uniform asymptotics for Dirichlet-to-Neumann operator in 2D diffraction from convex and non-convex obstacles</i>
10 <sup>15</sup> - 10 <sup>30</sup>	Papkelis E., Ouranos I., Moshovitis H., Karakatselos K., Frangos P.	<i>A radio coverage prediction method in urban microcellular environments using electromagnetic techniques</i>	Leble S.B., Reichel B.	<i>Projection to orthogonal function basis method for nonlinear multi-mode fiber</i>
10 <sup>30</sup> - 10 <sup>45</sup>	Belov P.A., Simovski C.P.	<i>Excitation of semi-infinite electromagnetic crystal by plane electromagnetic wave</i>	Lesonen D.N., Maximov G.A.	<i>Complete regularization of boundary integral equations in the diffraction problems on curved surfaces</i>

10<sup>45</sup> - 11<sup>15</sup>

COFFEE BREAK

[Main Hall](#)

SPECTRAL PROBLEMS FOR SCHRODINGER-TYPE OPERATORS (I)		SOLITONS AND EVOLUTION EQUATIONS	
Chair: Dobrokhotov S.Yu. <a href="#">Main Hall</a>		Chair: Pastrone F. <a href="#">Hall 311</a>	
11 <sup>15</sup> – 11 <sup>45</sup>	Brüning J., Dobrokhotov S.Yu., Tudorovskiy T.Ya., Geyler V.A.	<i>Multiple scattering of ultra-cold neutrons in the framework of random zero-range potential theory</i>	Konyukhova N.B., Kurochkin S.V., Gani V.A., Lenskii V.A.
11 <sup>45</sup> – 12 <sup>15</sup>	Exner P.	<i>Isoperimetric problems for <math>\delta</math>-interactions and mean-chord inequalities</i>	Biswas A.
12 <sup>15</sup> – 12 <sup>30</sup>	Karasev M.	<i>Resonance magneto-atoms and algebras with non-Lie commutation relations</i>	Gutshabas E.Sh.
12 <sup>30</sup> – 12 <sup>45</sup>			Makin R.S.
			<i>On stability of a charge topological soliton in the system of two interacting scalar fields</i>
			<i>Optical solitons with dual-power law nonlinearity</i>
			<i>New integrable versions of sin-Gordon's types equations</i>
			<i>On homoclynic orbits behavior for evolution equations with distribution parameters</i>

12<sup>45</sup> – 15<sup>00</sup>

LUNCH



	<b>SPECTRAL PROBLEMS FOR SCHRODINGER-TYPE OPERATORS (II)</b> <i>Chair: Brüening J.</i> <a href="#">Main Hall</a>		<b>RAY TRACING APPROACH</b> <i>Chair: Godin O.A.</i> <a href="#">Hall 311</a>	
15 <sup>00</sup> – 15 <sup>30</sup>	Koshmanenko V.	<i>On the inverse spectral theory for singularly perturbed operators</i>	Hasanov E.	<i>Complex rays in Minkowski space</i>
15 <sup>30</sup> – 16 <sup>00</sup>	Rabinovich V.S.	<i>A new approach to the essential spectrum of Schredinger, Klein-Gordon, and Dirac operators</i>	González-Moreno R., Alonso J., Bernabeu E.	<i>Diffraction through structured planar gratings: numerical approach based on ray tracing</i>
16 <sup>00</sup> – 16 <sup>30</sup>	Rouleux M.	<i>Magnetization and vortices in Kac's model</i>	Torabi E., Ghorbani A.	<i>Reflection coefficient modification for mobile path loss calculation</i>

16<sup>30</sup> – 17<sup>00</sup>**COFFEE BREAK**[Main Hall](#)

	<b>SPECTRAL PROBLEMS FOR SCHRODINGER-TYPE OPERATORS (III)</b> <i>Chair: Geyler V.A.</i> <a href="#">Main Hall</a>		<b>MATRIX FACTORIZATION</b> <i>Chair: Daniele V.</i> <a href="#">Hall 311</a>	
17 <sup>00</sup> – 17 <sup>30</sup>	Brüning J., Dobrokhotov S.Yu., Tudorovskiy T.Ya.	<i>On the destruction of the adiabatic approximation and regular modes for super excited longitudinal motion in quantum waveguides</i>	Büyükaksoy A., Çınar G.	<i>Solution of a matrix Wiener-Hopf equation connected with the plane wave diffraction by an impedance loaded parallel plate waveguide</i>
17 <sup>30</sup> – 17 <sup>45</sup>	Demidov V.V.	<i>Scattering and localization in network subjected to magnetic field</i>	Büyükaksoy A., Çınar G. , Uzgören G.	<i>Diffraction characteristics of an impedance loaded parallel plate waveguide</i>
17 <sup>45</sup> – 18 <sup>00</sup>			Shanin A.V., Doubravsky E.M.	<i>Some notes on the commutative matrix factorization</i>

**Friday, July 1, 2005**

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

**Departure of bus to the Petrodvoretz campus:  
8<sup>15</sup>, 27 Fontanka Quay (in front of Math.Inst.)**

<b>PLENARY SESSION</b> Chair: <i>Babich V.M.</i>		
<a href="#"><u>Conference Hall</u></a>		
$9^{40} - 10^{20}$	Exner P.	<i>Scattering and resonances in leaky quantum wires</i>
$10^{20} - 11^{00}$	Daniele V., Lombardi G.	<i>The Wiener-Hopf technique for impenetrable wedge problems</i>

Chernokozhin E.V.	<i>Transparent body synthesis for the cases of a circular cylinder and a sphere</i>	Simonenko I.I.	<i>Transient waves produced by a source on circle expanding for finite time</i>
Doghmane A., Doghmane M., Hadjoub I., Hadjoub F.	<i>Analytical and empirical evaluation of materials elastic moduli via one-parameter derived-formulae</i>	Anguiano M.M., Méndez O.M.M., Chávez-Cerda S., Iturbe C.M.D.	<i>Transverse patterns produced by interference of arrays of Bessel beams</i>
Hadjoub F., Gherib M.	<i>Determination of elastic properties of bio-materials via surface acoustic waves</i>	Vsemirnova E.A.	<i>Estimating velocity model with multicomponent seismic data</i>
Hadjoub Z., Touati I., Doghmane A.	<i>Application of velocity dispersion curves to the determination of critical thickness for Rayleigh wave excitation in thin films</i>	Pentenrieder B., Zavyalov N.	<i>Solving elliptic PDEs with discontinuous coefficients using finite element and multigrid method</i>
Kochetkov I.D.	<i>Dynamic behavior of composite piezoelectric actuators</i>	Ziatdinov S., Kashtan B.	<i>Additional components of the Rayleigh wave</i>
Logacheva E.I., Kohns P., Makin V.S.	<i>Surface plasmon polaritons on thin metal cylinder with oxide coating</i>	Zaitsev N.A., Sofronov I.L.	<i>A direct method for calculation of harmonic electromagnetic field in cylindrical geometry with multiple exciting source positions</i>
Makin V.S., Pestov Yu. I.	<i>Earlier stages and evolution of laser-induced material damage in universal polariton model</i>	Puchkov A.M.	<i>Square integrable solutions of spheroidal Coulomb equation of the imaginary variable</i>
Makin V.S., Pestov Yu. I.	<i>Temperature dependence of metal surface absorptivity</i>	Levin V.M., Senjushkina T.A.	<i>Catastrophes in sonic wave reflection at liquid-solid interfaces</i>
Utkin A.B.	<i>Waves produced by a traveling line current pulse with high-frequency filling</i>	Bandres M.A., Gutiérrez-Vega J.C.	<i>Vector Helmholtz-Gauss optical beams</i>
Yatsyk V.V.	<i>Resonant scattering of waves by the layer and grate a Kerr-like dielectric nonlinearity</i>	Yanson Z.A.	<i>On intensity of high-frequency surface waves in an anisotropic elasticity theory: the energy approach</i>
Kiseliev V.V., Dolgikh D.V.	<i>Soliton-like excitations and instability in a layered media and on surface of cylindrical shell</i>	Radin A.M., Kudashov V. N., Plachenov A. B.	<i>The unidirectional stability of passive ring optical resonators</i>
Antonets M.A.	<i>Contact interaction of the Pauli electron with a plane</i>	Roganova S.	<i>Spectral properties of hybrid spaces</i>
Badanin A., Sakharova A.	<i>Conditions of existence of the wave along the stiffener</i>	Yashina N.F., Zaboronkova T.M.	<i>Nonlinear interaction of electromagnetic waves guided by the dielectric slab in the anisotropic media</i>
Borisov A.V., Shapovalov A.V., Trifonov A.Yu.	<i>Wave packets localized near a surface for the multidimensional nonlinear Schrodinger equation in semiclassical approximation</i>	Myagkov D.V., Nesterov S.I., Gadjiev I., Portnoi E.L., Grikurov V.E.	<i>Investigation of first-order antireflecting grating - computations and experiment</i>

	<b>PLENARY SESSION</b>	
	Chair: <i>Kiselev A.P.</i>	<a href="#">Conference Hall</a>
12 <sup>00</sup> - 12 <sup>40</sup>	Casasso A., Pastrone F.	<i>Nonlinear waves in plane granular media</i>
12 <sup>40</sup> - 13 <sup>20</sup>	Levin V.M., Petronyuk Yu.S.	<i>Interaction of focused high-frequency ultrasound with flat interfaces and plane-parallel objects - theory and experimental data</i>
	<b>CLOSING</b>	

13<sup>20</sup> - 14<sup>30</sup> LUNCH

14<sup>30</sup> - 18<sup>00</sup> EXCURSION

[Petrodvoretz Gardens](#)

18<sup>00</sup> - ? PICNIC PARTY

[Woods near the campus](#)

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