



**DAYS on DIFFRACTION - 2004**

*June 29 – July 2, 2004, St.Petersburg, Russia*

*The Program*

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<http://math.nw.ru/dd04/Program.pdf>

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**Tuesday, June 29, 2004**

**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>ADVANCE TECHNIQUE FOR NONLINEAR WAVES</b>		<b>MATHEMATICAL ASPECTS</b>	
	<i>Chair : Buldyrev V.S.</i>		<i>Chair: Kuznetsov N.</i>	
	<a href="#"><u>Main Hall</u></a>		<a href="#"><u>Hall 311</u></a>	
<b>9<sup>40</sup> – 10<sup>10</sup></b>	Zeng Y.B.	<i>The generalized Darboux transformations for the KP equation with self-consistent sources</i>	Palamodov V.	<i>Source functions in inhomogeneous medium</i>
<b>10<sup>10</sup> – 10<sup>40</sup></b>	Tirozzi B., Dobrokhotov S.Yu.	<i>Equations of water wind waves over a non uniform bottom and some asymptotic solutions</i>	Medina J.M., Cernuschi Frias B.	<i>A note on the A.S. convergence of certain random series in <math>\mathcal{D}'(\mathbb{R}^d)</math></i>

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

**Main Hall**

	<b>WATER WAVES &amp; TRAPPING</b> <i>Chair: Williams P.S. <a href="#">Main Hall</a></i>		<b>WAVEGUIDES (SCATTERING)</b> <i>Chair: Grikurov V.E., <a href="#">Hall 311</a> Andronov I.V.</i>		<b>ODE &amp; SPECIAL FUNCTIONS</b> <i>Chair: Slavyanov S.Yu. <a href="#">Hall 203</a></i>	
11 <sup>00</sup> – 11 <sup>30</sup>	Andrianov A.I., Hermans A.J.	<i>Interaction of free surface waves and floating elastic plates</i>	Shen Z., Qian Ch.	<i>On the generalized transfer scattering matrix for cascaded waveguide discontinuities</i>	Slavyanov S.Yu.	<i>Gaussian-like eigenfunctions originated by the Heun's class differential equations</i>
11 <sup>30</sup> – 12 <sup>00</sup>	Ehrenmark U.	<i>Wave trapping on a plane beach and a consequent Green's function for a class of scattering problems</i>	Ishio H.	<i>Semiclassical analysis of diffraction in electronic transmission through a stepped quantum wire</i>	Kazakov A.Ya., Sirota Yu.N.	<i>Mobius transform for the linear ordinary differential equations</i>
12 <sup>00</sup> – 12 <sup>20</sup>	Kuznetsov N.	<i>Linear water waves in containers and channels: direct and inverse spectral problems</i>	Don N., Kirilenko A., Poyedinchuk A.	<i>Analysis of hollow uniform waveguides using unified approach</i>	Evstigneev L.A.	<i>BARSIC SLEIGN - software for computation of regular and singular Sturm-Liouville problem eigenvalues and eigenfunctions</i>
12 <sup>20</sup> – 12 <sup>40</sup>			Athanassoulis G.A., Politis K.S.	<i>A Gabor-Galerkin approach for solving infinite-energy problems with constrained-at-infinity admissible functions</i>	Yatsyk A.	<i>Use of GiNaC library in a field of symbolic analysis of differential equations</i>
12 <sup>40</sup> – 13 <sup>00</sup>	Motygin O.V.	<i>Frequency bounds for modes of fluid motion trapped near cylinders and periodic along their generators</i>	Bogomolov Ya.L., Semenov E.S., Yunakovsky A.D.	<i>Scattering problem for an accelerating part of a linear collider</i>	Igotti N.	<i>Asymptotic behavior of eigenvalues originated by confluent Heun equation with nearby singularities</i>

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

<b>SCATTERING &amp; DIFFRACTION</b> <i>Chair: Parsaei M.</i> <a href="#">Main Hall</a>		<b>NONLINEAR WAVES</b> <i>Chair: Tirozzi B.</i> <a href="#">Hall 311</a>	
15 <sup>00</sup> – 15 <sup>30</sup>	Chandezon J. <i>The method C for the study of the diffraction of electromagnetic wave by a surface</i>	Porubov A.V., Lavrenov I.V., Tsuji H.	<i>Formation of abnormally high localized water waves due to nonlinear two-dimensional waves interaction</i>
15 <sup>30</sup> – 15 <sup>50</sup>	Chandezon J., Poyedinchuk A., Tuchkin Y.A., Yashina N.P. <i>Certain aspects of spectral theory concerning C-method</i>	Lapin V.G., Yashina N.F.	<i>Diminishing of the three-wave decay threshold in the presence of long scale correlations</i>
15 <sup>50</sup> – 16 <sup>10</sup>	Acho T.M. <i>A parameter expansion method approach for the determination of the potential for the bispherical and toroidal distribution of charge</i>	Vakulenko S.A.	<i>Title Complexity of interaction of nonlinear waves</i>

16<sup>10</sup> – 16<sup>30</sup> **COFFEE BREAK**[Main Hall](#)

<b>NON-STATIONARY (MOVING) BOUNDARIES &amp; MEDIA</b> <i>Chair Zeng Y.B.</i> <a href="#">Main Hall</a>		<b>NUMERICAL APPROACHES</b> <i>Chair: Chandezon J.</i> <a href="#">Hall 311</a>	
16 <sup>30</sup> – 17 <sup>00</sup>	Censor D. <i>Non-relativistic scattering by time-varying bodies and media</i>	Alexeyeva A.L., Dadaeva A.N.	<i>Transient problems of uncoupled thermoelastodynamics for semispace with cylindrical cavities</i>
17 <sup>00</sup> – 17 <sup>30</sup>	Rosanov N.N., Sochilin G.B. <i>Acoustic wave propagation through fluids with inhomogeneous velocity distribution</i>	Basarab M.A., Kravchenko V.F.	<i>Application of the R-functions technique to solving electromagnetic wave scattering problems by the modified method of discrete sources</i>
<b>TRAPPED MODES</b> <i>Chair: Mel'nyk T.A.</i> <a href="#">Main Hall</a>		<b>FLUID DYNAMICS</b> <i>Chair: Kouzov D.P.</i> <a href="#">Hall 311</a>	
17 <sup>30</sup> – 18 <sup>00</sup>	Nazarov S.A. <i>The new criterion for existence of trapped modes</i>	Denisova I.V., Indeytsev D.A., Klimenko A.V.	<i>Stability of an infinite flexible beam under a viscous fluid flow with an exponential profile</i>
18 <sup>00</sup> – 18 <sup>30</sup>	Melnichuk O.P., Popov I.Yu. <i>Weakly coupled quantum and dielectric waveguides: variational estimates of the spectrum</i>	Bora S.N.	<i>Water wave diffraction by cylindrical structures in finite depth water</i>

**Wednesday June 30, 2004**

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

<b>QUANTUM RESONANCES</b>		<b>ELASTIC WAVES</b>	
<i>Chair: Dobrokhotov S.Yu.</i>		<i>Chair: Molotkov L.A.</i>	
<b><u>Main Hall</u></b>		<b><u>Hall 311</u></b>	
$9^{00} - 9^{30}$	Bludov Y.V. <i>Intrasubband magnetoplasmons in a finite array of quantum wires</i>	Cunha P.E.M.	<i>A fast "multi-source" reverse time migration (RTM)</i>
$9^{30} - 10^{00}$	Wegrzyn P. <i>Parametric resonance in a vibrating cavity</i>	Kiselev Yu.V., Troyan V.N.	<i>Numerical study of restoration of local elastic inhomogeneities by iterative approaches based on the diffraction tomography method</i>
$10^{00} - 10^{30}$	Dodonov V.V. <i>Quantum phenomena in cavities with moving boundaries</i>	Molotkov L.A.	<i>On the wave propagation in fluid and elastic-fluid block media</i>

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

**Main Hall**

	<b>CONE DIFFRACTION</b> <i>Chair: Lyalinov M.A. <a href="#">Main Hall</a></i>		<b>MULTI-RAYS &amp; WAVEGUIDE PROPAGATION</b> <i>Chair: Athanassoulis G.A. <a href="#">Hall 311</a></i>	
11 <sup>00</sup> - 11 <sup>30</sup>	Babich V.M.	<i>On electro-magnetic version of P-C ansatz</i>	Ouranos I., Papkelis E., Frangos P.	<i>An electromagnetic method for calculating radio coverage in urban environments using physical optics and physical theory of diffraction</i>
11 <sup>30</sup> - 12 <sup>00</sup>	Lyalinov M.A.	<i>On diffraction of acoustic waves by a transparent cone</i>	Kudrin A.V., Lyakh M.Yu., Kyriacou G.A., Zaboronkova T.M.	<i>Guided modes on radially nonuniform channels in a magnetoplasma</i>
12 <sup>00</sup> - 12 <sup>20</sup>	Semenova E.K., Doroshenko V.A.	<i>Field behavior near the tip and edges singularities of the slotted cone</i>	Philippov V.B., Kirpichnikova N.Ya., Vlasjuk N.G.	<i>Combined method of calculation of the field of the point source in a waveguide. (Slightly curved media.)</i>
12 <sup>20</sup> - 12 <sup>40</sup>	Merzon A.E.	<i>Time-dependent diffraction on a wedge: existence</i>	Nerukh A.G., Fedotov F.V., Benson F.V. , Sewell P.	<i>Analytic-numerical approach to non-stationary problems in dielectric waveguides</i>

12<sup>40</sup> - 14<sup>30</sup>**LUNCH**

<b>SPECTRAL ASYMPTOTICS</b> <i>Chair: Nazarov S.A.</i> <a href="#">Main Hall</a>		<b>VIBRATION OF PLATES</b> <i>Chair: Shanin A.V.</i> <a href="#">Hall 311</a>	
14 <sup>30</sup> - 15 <sup>00</sup>	Mel'nyk T.A. <i>Eigenmodes and pseudo-eigenmodes of thick multi-level junctions</i>	Filippenko G.V., Kouzov D.P.	<i>On the vibration of a plate partially protruding above the surface of a liquid</i>
15 <sup>00</sup> - 15 <sup>20</sup>	Albeverio S., Dobrokhotov S.Yu., Semenov E.S. <i>On the splitting formulas for high and low energy levels of the multidimensional Schrödinger operator</i>	Borovikov V.A., Popov A.L.	<i>Diffraction of progressive bending waves of infinite plate by a round inclusion</i>
15 <sup>20</sup> - 15 <sup>40</sup>	Poteryakhin M.A. <i>Normal forms in the neighborhood of invariant torus and asymptotic eigenfunctions and eigenvalues of the small diffusion operator</i>	Rossikhin Yu.A., Shitikova M.V., Loktev A.A.	<i>Impact of a sphere upon a elastic buffer embedded onto a elastic transversely isotropic plate</i>
15 <sup>40</sup> - 16 <sup>00</sup>	Pokrovski A. <i>Spectral asymptotics of quantum harmonic oscillator perturbed by almost periodic potential</i>	Tkacheva L.A.	<i>Floating elastic plate behavior under periodic external load</i>

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

<b>SOLITONS</b> <i>Chair: Fortunato D.</i> <a href="#">Main Hall</a>		<b>MATHEMATICAL ASPECTS</b> <i>Chair: Wegrzyn P.</i> <a href="#">Hall 311</a>	
16 <sup>30</sup> - 17 <sup>00</sup>	Sukhorukov A.A., Kivshar Yu.S. <i>Dynamic band-gap solitons in nonlinear self-induced lattices</i>	Nazarov S.A., Slutskij A.	<i>Branching periodicity: homogenization of the Dirichlet problem for an elliptic system</i>
17 <sup>00</sup> - 17 <sup>30</sup>	Konyukhova N.B., Dyshko A.L., Voronov N.A. <i>Multiple self-similar solitons to the system of nonlinear scalar Higgs fields in the (d+1) - dimensional de Sitter space</i>	Pavlov Yu.V.	<i>On wave equation in curved space-time</i>
17 <sup>30</sup> - 18 <sup>00</sup>	Serikbaev N.S., Zhunussov K.Kh., Rahimov F.K., Koshkinbaev A.D., Myrzakulov R. <i>On some integrable and nonintegrable nonlinear equations of elastic ferromagnets</i>	Kirpichnikova A.	<i>The uniqueness inverse boundary spectral problem for the second order differential operator on the Riemannian polyhedron</i>

Thursday July 1, 2004

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

<b>SHOCK WAVES</b> <i>Chair: Omel'yanov G.A.</i> <a href="#">Main Hall</a>		<b>NUMERICAL APPROACHES</b> <i>Chair: Pastrone F.</i> <a href="#">Hall 311</a>	
$9^{00} - 9^{30}$	Shelkovich V.M. <i>The delta-shock front problem</i>	Gursky V.V., Kozlov K.N., Samsonov A.M.	<i>Combined optimization technique for data fitting</i>
$9^{30} - 10^{00}$	Danilov V.G. <i>Formation and breakup of shock waves for scalar conservation laws</i>	Parsaei M.	<i>Interaction of the numerical solution of hyperbolic equations with an obstacle in the flow direction</i>
$10^{00} - 10^{30}$	Omel'yanov G.A. <i>The uniqueness problem for shock waves interaction in gases</i>	Williams P.S.	<i>The computation of the potential of a wave obliquely incident on a plane beach of any angle</i>

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

[Main Hall](#)

<b>NONLINEAR WAVES IN COMPLEX MEDIA</b> <i>Chair: Samsonov A.M.</i> <a href="#">Main Hall</a>		<b>MOVING SOURCES</b> <i>Chair: Censor D.</i> <a href="#">Hall 311</a>	
$11^{00} - 11^{30}$	Casasso A., Pastrone F. <i>Non linear waves in microstructured solids and complex structures</i>	Borisov V.V.	<i>Solutions of the 3D telegraph equation for circular sources moving with the wavefront velocity</i>
$11^{30} - 12^{00}$	Konyukhova N.B., Sukov A.I., Lima P.M., Chemetov N.V. <i>Analysis and numerical modelling of bubble-type solutions in nonlinear physics</i>	Rabinovich V., Sanchez I.M.	<i>Propagation of waves in the electron plasma from nonuniformly moving sources</i>
$12^{00} - 12^{30}$	Alexander T.J., Sukhorukov A.A. <i>Stable half-charge vortices in parametric wave mixing</i>	Ciarletta M., Iovane G., Nasedkin A.V.	<i>Plane waves and fundamental solutions in plane and antiplane problems for anisotropic elastic medium under moving oscillating source</i>

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

SCATTERING & DIFFRACTION <i>Chair: Zaboronkova T.M.</i> <a href="#">Main Hall</a>		OPTICS <i>Chair: Rosanov N.N.</i> <a href="#">Hall 311</a>	
14 <sup>30</sup> - 15 <sup>00</sup>	Shanin A.V. <i>A new symmetry relation for some diffraction problems: a generalization of the reciprocity principle</i>	Abramochkin E.G., Volostnikov V.G.	<i>Wavefield stability under Fourier transform</i>
15 <sup>00</sup> - 15 <sup>20</sup>	Grigoryan E., Melkumyan A. <i>On wave diffraction in a piezoelectric medium containing semi-infinite electrode</i>	Kiselev A.P.	<i>New structures in paraxial Gaussian-type beams</i>
15 <sup>20</sup> - 15 <sup>40</sup>	Agayan K., Grigoryan E., Jilavyan S. <i>Diffraction of waves in an elastic space with semi-infinite elastic inclusion</i>	Smotrova E.I., Nosich A.I.	<i>Spectra and thresholds of the WG modes in a microdisk laser with non-uniform gain area</i>
15 <sup>40</sup> - 16 <sup>00</sup>	Radchenko V.V. <i>Modeling of a dipole antenna on a partially screened double-layer lossy dielectric sphere</i>	Ledneva H.P., Astafyeva L.G., Korzhev A.V., Katseva I.R.	<i>Influence of spatial recovering modes of different orders on the lasing in aerosol particle</i>

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

MATHEMATICAL ASPECTS <i>Chair: Danilov V.G.</i> <a href="#">Main Hall</a>		PULSES & LOCALIZED SOLUTIONS <i>Chair: Abramochkin E.G.</i> <a href="#">Hall 311</a>	
16 <sup>30</sup> - 17 <sup>00</sup>	Brúning J., Geyler V.A. <i>Geometric scattering on a hybrid manifold as a model for the spectral theory of automorphic functions</i>	Lebedev M.K., Tolmachev Yu.A.	<i>Impulse approach in the diffraction problems: results and comparison with the rigorous diffraction theory</i>
17 <sup>00</sup> - 17 <sup>30</sup>	Smolyanov O.G., Truman A. <i>Large hamiltonian Feynman path integrals via the Chernoff formula and all that</i>	Kozlov S.A., Petroshenko P.A.	<i>Self-focusing of few-cycle light pulses of several wave lengths transverse sizes</i>
17 <sup>30</sup> - 18 <sup>00</sup>	Borzov V.V., Damaskinsky E.V. <i>Polynomial based coherent states and related Bargmann spaces</i>	Lisok A.L., Shapovalov A.V., Trifonov A.Yu.	<i>On the quasi-energy spectral series of the nonlinear Hartree-type equation with quadratic potential</i>

*Friday July 2, 2004*

*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 <sup>30</sup> – 10 <sup>15</sup>	Karasev M.	<i>Birkhoff resonances and quantum ray method</i>
10 <sup>15</sup> – 11 <sup>00</sup>	Fortunato D.	<i>Solitary waves and electromagnetic fields</i>

11<sup>00</sup> – 12<sup>00</sup> POSTER SESSION AND COFFEE[Entrance Hall](#)

Akhmeteli A.M.	<i>A Gaussian beam diffracting on a conducting cylinder – exact solutions of the Maxwell equations and their applications</i>	Shermenev A., Shermeneva M.	<i>Nonlinear acoustic wave equation in cylinder coordinates</i>
Astafyeva L.G., Zhelto G.I.	<i>Effect of internal intensity distribution on heating of blood vessel by laser radiation</i>	Borisov A.V., Trifonov A.Yu., Shapovalov A.V.	<i>On semiclassical solitary waves of the nonlinear Schrödinger equation with an external field</i>
Balaban M.V.	<i>Electromagnetic wave diffraction by a perfectly conducting disk</i>	Gorbatsevich F., Gillen C.	<i>The types of the phenomenon of linear acoustic anisotropic absorption (LAAA)</i>
Doroshenko V.A.	<i>Integral transforms in time-domain diffraction problems on unclosed cone structures</i>	Yanson Z.A.	<i>On intensity of high-frequency modes of Rayleigh type in anisotropic elastic media</i>
Il'chenko V.L.	<i>On a role of wave processes in geological mediums (experimental data)</i>	Vsemirnova E.A.	<i>2-D raytracing for the case of curved boundaries between two half-spaces</i>
Boutko Ya.A.	<i>Representations of solutions of the Cauchy-Dirichlet problem for the heat equation in a domain of a compact Riemannian manifold and functional integrals</i>	Kossovich L.Yu., Kovalev V.A., Taranov O.V.	<i>Asymptotic model for far field of Rayleigh in the case of elastic thin-walled cylinder</i>
Kulakova L.A., Tarasov I.S.	<i>Surface and bulk sound wave effect on the heterolaser spectral characteristics</i>	Kochetkov I.D., Rogacheva N.N.	<i>Efficiency of piezoelectric actuator exciting acoustic waves in semi-infinite elastic solid</i>
Afanas'ev A.A., Mikhnevich S.Yu., Kononenko V.K.	<i>Spectral and output power characteristics of DFB laser heterostructures</i>	Boriskin A.V., Boriskina S.V., Sewell P., Benson T.M., Nosich A.I.	<i>Trigonometric-Galerkin discretization of the Muller boundary integral equations with application to dielectric antenna analysis</i>
Sitnik S.M.	<i>On unitary transmutations for the Bessel differential operator</i>	Yatsyk V.V.	<i>Resonant scattering of waves on the nonlinear dielectric layer</i>
Koposova E.V., Vlasov S.N.	<i>Vector wave beams. Change of polarization of wave beams of electromagnetic waves at reflection from dielectric plate</i>	Yashina N.F., Zaboronkova T.M.	<i>Parametric instability of electromagnetic waves guided by the dielectric-anisotropic media boundary</i>
Dorofeev M.S.	<i>Boundary conditions at the movable waveguide outlet</i>	Lebedev M.K., Tolmachev Yu.A.	<i>Diffraction of ultrashort pulse from Gaussian diaphragm</i>
Borovskikh A.V.	<i>Eikonal equation for inhomogeneous medium</i>	Shvedov V.G.	<i>Topological transformations in combined singular beams</i>
Ruzhytska N., Nerukh A.G., Nerukh D.	<i>Evolution of non-stationary electromagnetic signal complexity in a modulated medium</i>	Farafonov V.G., Il'in V.B.	<i>Light scattering methods for Chebyshev particles: convergence in the far-field zone and the Rayleigh hypothesis</i>
Belov P.A., Simovski C.R.	<i>Excitation of semi-infinite electromagnetic crystal by plane electromagnetic wave</i>	Simonenko I.S.	<i>On pulsating solutions of the telegraph equation</i>
Kytmanov A.	<i>Impulse approach for solving some emission problems</i>	Puchkov A.M.	<i>Square integrable solutions of the c-type spheroidal Coulomb equation</i>

<b>PLENARY SESSION</b>		
Chair: <i>Kiselev A.P.</i>		<a href="#"><u>Conference Hall</u></a>
12 <sup>00</sup> – 12 <sup>45</sup>	Belov V.V., Dobrokhotoy S.Yu., Tudorovskiy T.Ya.	<i>Operator separation of variables and Maslov non-standard characteristics in adiabatic problems</i>
12 <sup>45</sup> – 13 <sup>30</sup>	Shadrivov I.V., Kivshar Yu.S., Zharov A.A., Zharova N.A.	<i>Left-handed metamaterials and negative refraction</i>
CLOSING		

13<sup>30</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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