

Participants of OTAMP2004

Organizers

- (1) **Jan Janas**
Institute of Mathematics PAN, Poland
Branch in Cracow, Sw.Tomasz 30, 31-027, Cracow, Poland
najanas@cyf-kr.edu.pl
- (2) **Pavel Kurasov**
Dept. of Mathematics, Lund Institute of Technology
Dept of Mathematics, LTH, Solvegatan 18, Box 118, 221 00
Lund, Sweden
kurasov@maths.lth.se
- (3) **Ari Laptev**
Royal Institute of Technology in Stockholm, Sweden
Department of Mathematics, Royal Institute of Technology,
100 44 Stockholm, Sweden
laptev@math.kth.se
- (4) **Sergey Naboko**
St.Petersburg State University, Russia
Department of Mathematical Physics, Institute of Physics,
NIIF, St.Petersburg State University, ul.Ulianovskaya, 1, St.Petergoff,
St.PETERSBURG, Russia, 198904
naboko@math.su.se
- (5) **Gunter Stolz**
University of Alabama at Birmingham, USA
Department of Mathematics, CH 542, University of Alabama
at Birmingham, 1300 University Blvd, Birmingham, AL 35294-
1170, USA
stolz@math.uab.edu

Invited speakers

- (1) **Vadim Adamyan**
Odessa National University, Ukraine
I.I. Mechnikov Odessa National University, 65026 Odessa, Ukraine
vadamyan@paco.net
Perturbation theory for a class of close selfadjoint extensions
- (2) **Walter van Assche**
Katholieke Universiteit Leuven, Belgium

Department of Mathematics Katholieke Universiteit Leuven
 Celestijnenlaan 200 B B-3001 Leuven Belgium
 walter@wis.kuleuven.ac.be

Orthogonal polynomials with discrete spectrum and converging recurrence coefficients

(3) **Yurij Berezansky**

Institute of Mathematics of NASU, Professor, Academician of NASU, Ukraine

Institute of Mathematics of NASU, 3 Tereshchenkivs'ka Str., 01601 Kyiv, Ukraine

berezan@mathber.carrier.kiev.ua

Spectral theory of commutative Jacobi fields and its some applications

(4) **Serguei Denisov**

California Institute of Technology

Mathematics 253-37, Caltech, Pasadena, CA, 91125, USA

denisov@caltech.edu

On new developments in the spectral analysis of the Schrödinger and Dirac operators

(5) **Pavel Exner**

Nuclear Physics Institute, Czech Academy of Sciences

Department of Theoretical Physics, Nuclear Physics Institute, Academy of Sciences, 25068 Rez/Prague, Czechia

exner@ujf.cas.cz

Vertex coupling approximations in quantum graphs

(6) **Ira Herbst**

University of Virginia, Charlottesville, USA

Department of Mathematics P. O. Box 400137 University of Virginia Charlottesville, VA 22904-4137 USA

iwh@virginia.edu

Absence of quantum states corresponding to unstable classical channels

(7) **Frederic Klopp**

Universite Paris-Nord, France

LAGA UMR 7539, Institut Galilee, Av. JB Clement, 93430, Villetaneuse, France

klopp@math.univ-paris13.fr

Adiabatic quasi-periodic Schrödinger operators. Interactions between spectral bands

(8) **Heinz Langer**

TU Vienna, Austria

Institute of Analysis and Scientific Computing, Wiedner Hauptstrasse 8-10, A-1040 Wien, Austria

hlanger@mail.zserv.tuwien.ac.at

The generalized Schur algorithm and inverse spectral problems

(9) **Marco Marletta**

Cardiff University, United Kingdom

School of Mathematics, Cardiff University, PO Box 926, Cardiff CF24 4YH, United Kingdom

Marco.Marletta@cs.cardiff.ac.uk

Approximation of DN maps and spectra of Schrödinger operators on exterior domains

(10) **Robert Minlos**

Institute for Information Transmission Problems (Russian Academy of Science), Moscow, Russia

Dobrushin Mathematical Laboratory, Institute for Information Transmission Problems (Russian Academy of Science), Karetnyj pereulok, 19, Moscow, 101447 Russia

minl@iitp.ru

Two-particle bounded states of transfer-matrix for Gibbsian fields (high temperature regime)

(11) **Boris Pavlov**

Dept. of Mathematics, University of Auckland, New Zealand

Dept. of Mathematics, University of Auckland, Private Bag 92019, Auckland, New Zealand

pavlov@math.auckland.ac.nz

Transport properties of quantum networks

(12) **Alexander Pushnitski**

Loughborough University, U.K.

Department of Mathematical Sciences, Loughborough University, Loughborough, LE11 2NL, United Kingdom

a.b.pushnitski@lboro.ac.uk

Trace formulae and high energy spectral asymptotics for the Landau Hamiltonian

(13) **Oleg Safronov**

University Alabama, Birmingham USA and KTH, Stockholm Sweden

Mathematical Department, UAB, 1300 University Boulevard, Birmingham, AL35294 USA

oleg@math.uab.edu

Absolutely continuous spectrum of multi-dimensional Schrödinger operators with slowly decaying potentials

- (14) **Jeffrey Schenker**
 ETH, Switzerland
 Theoretische Physik ETH Zurich CH-8093 Zurich Switzerland
 jschenker@itp.phys.ethz.ch
 Spectral Theory of Time Dispersive and Dissipative Systems
- (15) **Andrei Shkalikov**
 Moscow Lomonosov State University, Russia
 Department of Mechanics and Mathematics, Moscow Lomonosov
 State University, Moscow, Vorob'evi Gori, 119899, Russia
 ashkalikov@yahoo.com
 Limit spectral portraits for non-selfadjoint problems with small
 parameter
- (16) **Peter Stollmann**
 Faculty of Maths, TU Chemnitz, Germany
 Faculty of Maths, TU Chemnitz, 09107 Chemnitz, Germany
 p.stollmann@mathematik.tu-chemnitz.de
 Generic singular continuous spectrum for geometric disorder
- (17) **Ryszard Szwarc**
 University of Wrocław, Poland
 Institute of Mathematics University of Wrocław pl. Grun-
 waldzki 2/4 50-384 Wrocław, Poland
 szwarc@math.uni.wroc.pl
 Estimates for Jacobi matrices and chain sequences

Participants

- (1) **Andrei Borisovich**
 Gdansk University, Poland
 Institute of Mathematics, University of Gdansk, ul. Wita
 Stwosza 57, 80-952 Gdansk, POLAND
 andbor@math.univ.gda.pl
 Fredholm operators and bifurcations in Plateau problem
- (2) **Piotr Budzyński**
 Institute of Mathematics, Jagiellonian University, Poland
 Jagiellonian University, Department of Mathematics and In-
 formatics, Institute of Mathematics, Reymonta 4, 30-059, Krakow,
 Poland
 piotr_budzynski@o2.pl
- (3) **Laura Cattaneo**
 Institute for Applied Mathematics, University of Bonn, Ger-
 many
 Institute for Applied Mathematics, Probability and Statistics

- Division, Wegelerstrasse 6, D-53115 Bonn, Germany
 cattaneo@wiener.iam.uni-bonn.de
 Mourre's inequality and embedded bound states
- (4) **Dariusz Cichon**
 Uniwersytet Jagiellonski, Instytut Matematyki, Poland
 Instytut matematyki UJ. Reymonta 4, 30059 Krakow, Poland
 cichon@im.uj.edu.pl
 Selfadjointness of non-Jacobi infinite matrices
- (5) **Petru Cojuhari**
 AGH University of Science and Technology, Department of Applied Mathematics, Poland
 Department of Applied Mathematics, AGH Unieversity of Science and Technology, Al. Mickiewicza 30, 30-059 Cracow, Poland
 cojuhari@uci.agh.edu.pl
 Spectral Analysis of Dirac Operators
- (6) **Monique Combescure**
 CNRS France
 IPNL, bat Paul Dirac 4 rue Enrico Fermi F-69622 VILLEURBANNE FRANCE
 mcombe@ipnl.in2p3.fr
 Around the semiclassical behavior of "Quantum Fidelity"
- (7) **Horia Cornean**
 Aalborg Universitet, Danmark
 Institut for Matematiske Fag, Aalborg Universitet Fredrik Bayers Vej 7G 9220 Aalborg, Danmark
 cornean@math.auc.dk
 One dimensional models of excitons in carbon nanotubes
- (8) **Gisele Ducati**
 Federal University of Parana, Brazil
 Departamento of Mathematics PO Box 19081 Curitiba (PR) - Brazil 81531-970
 ducati@mat.ufpr.br
 Quaternionic potentials in non relativistic quantum mechanics
- (9) **Rupert Frank**
 Royal Institute of Technology Stockholm, Sweden
 Royal Institute of Technology, Department of Mathematics, Lindstedtsvaegen 25, 10044 Stockholm, Sweden
 rupert@math.kth.se
 On the Laplacian on the halfplane with a periodic boundary condition

- (10) **Vladimir Geyler**
Mordovian State University, Russia
Department of Mathematics Mordovian State University 430000
Saransk, Russia
geyler@mrsu.ru
Selberg zeta-function and geometric scattering on compact manifolds
- (11) **Leonid Golinskii**
Institute for Low Temperature Physics and Engineering, Ukraine
Mathematics Division, Institute for Low Temperature Physics
and Engineering, 47 Lenin ave., 61103, Kharkov, Ukraine
golinskii@ilt.kharkov.ua
Discrete spectrum of complex Jacobi matrices and Pavlov's
theorems
- (12) **Rostyslav Hryniv**
Institut für Angewandte Mathematik, Bonn (Germany)
Abt. für Stochastik Institut für Angewandte Mathematik Uni-
versität Bonn Wegelerstr. 6 D-53115 Bonn Germany
rhryniv@wiener.iam.uni-bonn.de, rhryniv@iapmm.lviv.ua
Inverse spectral problems for Sturm-Liouville operators in impedance
form
- (13) **Wataru Ichinose**
Shinshu University, Japan
Department of Mathematical Sciences, Shinshu University, Asahi
3-1-1, 390-8621, Matsumoto, Japan
ichinose@math.shinshu-u.ac.jp
A mathematical theory of the Phase space Feynman path in-
tegral of the functional
- (14) **Aref Jeribi**
Faculty of Sciences in Sfax Tunisia
Département de Mathématiques Faculté des sciences de Sfax
Route de Soukra Km 3.5 B.P. 802 3018 Sfax Tunisie
Aref.Jeribi@fss.rnu.tn
- (15) **Witold Karwowski**
Institute of Physics, Zielona Gora University, Poland
Witold Karwowski ul. Gajowicka 100 m.3 53 407 Wrocław,
Poland
witoldkarwowski@go2.pl
- (16) **Amir Khosravi**
University for Teacher Education of IRAN

Faculty of Mathematical Sciences and Computer Engineering,
University For Teacher Education, 599 Taleghani Ave.,
Tehran, 15618, IRAN

khosravi_amir@yahoo.com

C_ρ^* -algebras and functional calculus homomorphism

- (17) **Alexander V. Kiselev**
Dublin Institute of Technology, Ireland
School of Mathematical Sciences Dublin Institute of Technol-
ogy DIT Kevin Street Dublin 8 IRELAND
alexander.kiselev@dit.ie
Weak annihilators for non-self-adjoint operators with almost
Hermitian spectrum
- (18) **Kamila Kliś**
Akademia Rolnicza, Krakow, Poland
Zakład Zastosowań Matematyki, Akademia Rolnicza, Al. Mick-
iewiczza 24/28, 30-059 Krakow
rmklis@cyf-kr.edu.pl
- (19) **Sylwia Kondej**
Institute of Physics, University of Zielona Gora, Poland
University of Zielona Gora, Institute of Physics, ul. Szafrana
4a, 65246 Zielona Gora, Poland
kondej@ift.uni.wroc.pl
Schrödinger operators with singular perturbations: a reso-
nance model
- (20) **Evgeni Korotyaev**
Humboldt -Univ. Germany
Humboldt-Universitt zu Berlin Math. Institute Rudower Chaussee
25 Johann von Neumann-Haus (I.313) 10099 Berlin
ek@mathematik.hu-berlin.de
Inverse problem for the discrete 1D Schrödinger operator with
periodic potential
- (21) **Volodymyr Koshmanenko**
Professor, Institute of Mathematics, Ukraine
Department of Mathematical Physics, Institute of Mathemat-
ics, Tereshchenkivska str. 3, 01601 Kyiv, Ukraine
kosh@imath.kiev.ua
On singular perturbations given by Jacobi matrices
- (22) **Alexander Kozhevnikov**
University of Haifa, Israel
Department of Mathematics, University of Haifa, Haifa, 31905,

- Israel
kogevn@math.haifa.ac.il
On isomorphism of elliptic operators
- (23) **Stanislav Kupin**
University of Provence, France
CMI, UMR 6632 University of Provence 39, rue Joliot-Curie
13453 Marseille Cedex 13 France
kupin@cmi.univ-mrs.fr
Non-Szegö asymptotics for orthogonal polynomials on the unit circle
- (24) **Annemarie Luger**
Vienna University of Technology, Austria
Department of Analysis and Scientific Computing, Wiedner
Hauptstrasse 8-10, A-1040 Wien, Austria
aluger@mail.zserv.tuwien.ac.at
Reflectionless point interaction
- (25) **Witold Majdak**
The University of Mining and Metallurgy in Krakow, The Faculty of Applied Mathematics, Poland
The University of Mining and Metallurgy, The Faculty of Applied Mathematics, al. Mickiewicza 30, 30-059, Krakow, Poland
majdak@wms.mat.agh.edu.pl (or: majdak@autograf.pl)
- (26) **Maria Malejki**
Faculty of Applied Mathematics, AGH University of Science and Technology, Poland
Faculty of Applied Mathematics, AGH University of Science and Technology, al. Mickiewicza 30, 30-059 Krakow, Poland
malejki@uci.agh.edu.pl
- (27) **Federico Menendez-Conde**
Universidad Autonoma de Hidalgo, Mexico
Centro de Investigacion en Matematicas Instituto de Ciencias Basicas e Ingeniera (ICBI) Carr. Pachuca-Tulancingo Km 4.5 Mineral de la Reforma, Hidalgo CP 42181
fmclara@uaeh.reduaeh.mx
- (28) **Bernd Metzger**
Fakultät für Mathematik, TU Chemnitz
Technische Universität Chemnitz Fakultät für Mathematik 09107 Chemnitz
b.metzger@mathematik.tu-chemnitz.de

- The Parabolic Anderson Model: The asymptotics of the statistical moments, Lifshitz tails and related topics
- (29) **Boris Mityagin**
 the Ohio State University, Columbus, USA
 Department of Mathematics 231 West 18th Ave Columbus,
 OH 43210 the U.S.A.
 mityagin.1@osu.edu
 Simple and double eigenvalues of the Hill operator with a two
 term potential
- (30) **Wojciech Młoczek**
 Akademia Rolnicza w Krakowie
 Zakład Zastosowań Matematyki, al. Mickiewicza 24, 30-059
 Krakow
 mlocek@ar.krakow.pl
 tel: (012) 662 40 20
- (31) **Marcin Moszynski**
 Instytut Matematyki Stosowanej i Mechaniki, Wydział Matem-
 atyki Informatyki i Mechaniki, Uniwersytet Warszawski
 Uniwersytet Warszawski, Wydział Matematyki Informatyki i
 Mechaniki, Instytut Matematyki Stosowanej i Mechaniki, ul.
 Banacha 2, 02-097, Warszawa, Poland
 mmoszyns@mimuw.edu.pl
 1. On some unbounded tridiagonal matrices generating C_0
 semigroups in l^p spaces
- (32) **Yaroslav Mykytyuk**
 Lviv National University, Ukraine
 Department of mechanics and mathematics, Lviv National
 University, 1, Universytetska st., 79000, Lviv, Ukraine
 yamykytyuk@yahoo.com
 An Inverse Scattering Problem for Sturm-Liouville Operators
 on Semiaxis
- (33) **Hatem Najjar**
 I.P.E.I.Monastir Tunisia
 Departement de mathematiques I.P.E.I.Monastir. 5000 Mona-
 stir Tunisie
 hatem.najjar@ipeim.rnu.tn
- (34) **Marlena Nowaczyk**
 Matematik LTH, Sweden
 Matematikcentrum LTH Box 118 221 00 Lund, Seden

- marlena@maths.lth.se
Inverse Scattering Problem for Quantum Graphs
- (35) **Konstantin Pankrashkin**
Institute of Mathematics, Humboldt-University of Berlin, Germany
Institute of Mathematics Humboldt-University of Berlin Rudower
Chaussee 25 12489 Berlin Germany
const@mathematik.hu-berlin.de
Point perturbations as pseudopotentials
- (36) **Artem Pulemotov**
Kyiv National T. Shevchenko Univ., Ukraine
Department of Mathematics and Mechanics, Kyiv National T.
Shevchenko Univ., 64 Volodymyrska str., 01033 Kyiv, Ukraine
pulen@i.kiev.ua
Subfields of a Jacobi Field
- (37) **Roman Romanov**
Cardiff University, UK, and St. Petersburg State University,
Russia
School of Computer Science Cardiff University, Cardiff Queen's
Buildings, PO Box 916 Newport Road, Cardiff CF24 3XF UK
r.v.romanov@cs.cf.ac.uk
The instability of the absolutely continuous spectrum of nonself-
adjoint ordinary differential operators under slowly decaying
perturbations
- (38) **Hermann Schulz-Baldes**
TU Berlin, Germany
Institut fuer Mathematik Strasse des 17. Juni 136 D-10623
Berlin, Germany
schuba@math.tu-berlin.de
Weak disorder expansion for localization lengths of quasi-1D
systems
- (39) **Roman Shterenberg**
St.Petersburg State University, Russia
Department of Mathematical Physics, Physical Faculty, St.Petersburg
State University, ul. Ul'yanovskaya 1, 198504 St.Petersburg,
Petrodvorets, RUSSIA
roman@rs3759.spb.edu
Periodic magnetic Schrödinger operator with degenerate lower
edge of the spectrum
- (40) **Luis Silva**
Instituto de Investigaciones en Matematicas Aplicadas y en
Sistemas (IIMAS) Universidad Nacional Autonoma de Mexico

- Mexico
 Depto. de Metodos Matematicos y Numericos IIMAS-UNAM
 Apdo. postal 20-726 01000 Mexico, D.F.
 silva@leibniz.iimas.unam.mx
 Absence of accumulating points in the pure point spectrum of
 Jacobi matrices
- (41) **Gerald Teschl**
 University of Vienna, Austria
 Department of Mathematics, University of Vienna, Nordbergstr.
 15, A1090 Vienna, Austria
 gerald.teschl@univie.ac.at
 Scattering theory for Jacobi operators with quasi-periodic back-
 ground
- (42) **Alessandro Teta**
 Dipartimento di Matematica Pura e Applicata Universita di
 L'Aquila Italy
 Dipartimento di Matematica Pura e Applicata Universita di
 L'Aquila via Vetoio - Loc. Coppito 67100 L'Aquila Italy
 teta@univaq.it
 Analysis of decoherence in two-particle system
- (43) **Alexey Tikhonov**
 Taurida National University, Ukraine
 28 Kirov str., apt. 61 Simferopol, 95011 Crimea Ukraine
 tikhonov@club.cris.net
 Functional model for operators with spectrum on a curve and
 its applications
- (44) **Francoise Truc**
 Institut Fourier, France
 Institut Fourier, Laboratoire de Mathematiques, BP 74, 38402
 St Martin d'Herès Cedex , France
 trucfr@ujf-grenoble.fr
 Remarks on the spectrum of the Neumann problem with mag-
 netic field in the half space
- (45) **Tomio Umeda**
 Himeji Institute of Technology Japan
 Department of Mathematics Himeji Institute of Technology
 Shosha, Himeji 671-2201 Japan
 umeda@sci.himeji-tech.ac.jp
- (46) **Peter Yuditskii**
 Johannes Kepler University of Linz, Austria

Institute for Analysis, Johannes Kepler University of Linz, A-4040 Linz, Austria
 Petro.Yudytskiy@jku.at

On generalized sum rules for Jacobi matrices

(47) **Boris N. Zakhariev**

Joint Institute for Nuclear Research
 Laboratory of theoretical Physics, JINR, Dubna, 141980, Russia

zakharev@thsun1.jinr.ru

New results in control of discrete, continuous and band spectra of Schrödinger equation

(48) **Grigory Zhislin**

Doctor of phys. and math.sciences, professor (main scientist of Radiophysical Research Institute) full professor of Nizhny Novgorod State University, Russia

Division of mathem.physics of Radiophysical Research Institut (NIRFI), 25 Bolshaya Pecherskaya str. 603950, Nizhny Novgorod, Russia

greg@nirfi.sci-nnov.ru

Spectral properties of pseudorelativistic hamiltonians of atoms and positive ions with nuclei of infinite masses

(49) **Lech Zielinski**

Universite du Littoral, FRANCE

Centre Universitaire de la Mi-Voix, Laboratoire de Math. Pures et Appliques, Universite du Littoral, 50 rue F. Buisson B.P. 699, 62228 Calais, FRANCE

Lech.Zielinski@lmpa.univ-littoral.fr

On Semiclassical Spectral Asymptotics for Elliptic Operators with Critical Points

(50) **Andrej Zlatoš**

University of Wisconsin-Madison

Mathematics Department University of Wisconsin-Madison 480 Lincoln Dr. Madison, WI 53706 USA

andrej@math.wisc.edu

Sum Rules for Jacobi Matrices and Divergent Lieb-Thirring Sums