

**Minister of Science
and Higher Education (MSHE)
Republic of Poland**



RESEARCH CONFERENCES

ESF Mathematics Conference in Poland
in partnership with MSHE and the
Institute of Mathematics (PAN)

Operator Theory, Analysis and Mathematical Physics

Mathematical Research and Conference Center,
Będlewo ■ Poland
15-22 June 2008

Chair:

Jan Janas, Polish Academy of Sciences, PL

Co-Chairs:

Pavel Kurasov, Lund Institute of Technology, SE

Ari Laptev, Royal Institute of Technology, SE

Serguei Naboko, St. Petersburg State University, RU

Advisory Committee:

Boris Pavlov, University of Auckland, NZ

Gunter Stolz, University of Alabama, US

www.esf.org/conferences/08279

With support from:

TODEQ Programme



Final Programme

Sunday, 15 June

Late afternoon / early evening	Registration at the ESF desk
19.00	Welcome Drink
20.00	Dinner

Monday, 16 June

08.30-09.00	Conference Opening
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Session 1

Chair: Ari Laptev, Royal Institute of Technology, SE

09.00-09.50	Horst Behncke University of Osnabruck, DE <i>Spectral theory of higher order differential operators</i>
09.50-10.40	Pavel Exner Doppler Institute, CZ <i>Nontrivial coupling from squeezing of Dirichlet networks : a bent tube example</i>
10.40-11.10	Coffee break
11.10-12.00	W. Desmond Evans Cardiff University, UK <i>Representation of compact linear operators in Banach spaces and applications to nonlinear eigenvalue problems</i>
12.00-12.50	Fritz Gesztesy University of Missouri, US <i>Robin-to-Dirichlet maps and Krein-type resolvent formulas for Schroedinger operators on bounded Lipschitz domains</i>
12.50	Lunch
14.00-14.50	Roman Romanov St. Petersburg State University, RU <i>Absolutely continuous spectrum of non-selfadjoint operators beyond trace scattering theory</i>

Session 2: Contributed Talks

Parallel Session A

15.00-15.40	Witold Karwowski Opole University, PL
15.45-16.15	Maksym Derevyagin Donetsk Institute of Applied Mathematics and Mechanics, UA
16.15-16.40	Coffee break
16.40-17.10	Abdelouahab Kadem University of Sétif, DZ

Parallel Session B

15.00-15.40	Jan Dereziński University of Warsaw, PL
15.45-16.25	Yaroslav Mykytyuk Lviv Franko National University, UA
16.25-16.40	Coffee break
16.40-17.20	Ivan Veselić Technische Universität Chemnitz, DE

17.15-17.45 Ian Wood
Aberystwyth University, UK

17.25-17.55 Ahmed Al Rawashadeh
Jordan University of Science and
Technology

19.00 Dinner

Tuesday, 17 June

Session 3

Chair: Boris Pavlov, University of Auckland, NZ

08.30-09.20 Dimitri Yafaev
University of Rennes, FR
Spectral properties of translationally invariant magnetic Schroedinger operators

09.20-10.10 Anne Boutet de Monvel
Université Paris Diderot Paris 7, FR
Lecture

10.10-11.00 Andrei Shkalikov
Moscow State University, RU
Extension theory and diagonalization of 2x2 symmetric operator matrices

11.00-11.30 Coffee break

11.30-12.20 Yuriy Tomilov
University of Torun, PL
On weakly wandering vectors

12.20-13.10 Joachim Toft
University of Växjö, SE
Micro-local analysis with Fourier-Lebesgue spaces

13.10 Lunch

Session 4: Contributed Talks

Parallel Session A

15.00-15.40 Leonid Parnovski
University College London,
UK

15.45-16.25 Carsten Trunk
Technische Universität
Ilmenau, DE

16.25-16.50 Coffee break

16.50-17.20 Jussi Behrndt
Technische Universität Berlin,
DE

17.25-17.55

19.00 Dinner

Parallel Session B

15.00-15.40 Alexey Tikhonov
Taurida National University, UA

15.45-16.25 Annemarie Luger
Lund University, SE

16.25-16.50 Coffee break

16.50-17.20 Iuliia Pashkova
Taurida National University, UA

17.25-18.15 Alexander Kiselev
St. Petersburg State University, RU

Wednesday, 18 June

Session 5

Chair: Gunter Stolz, University of Alabama, US

08.30-09.20 Bruno Nachtergaele
University of California Davis, US

Quasi-locality of the dynamics of quantum lattice systems

09.20-10.10

Peter Yuditskii

J. Kepler University, Austria, AT

Spectral/scattering theory for 1-D operators with homogeneous spectrum and beyond

10.10-11.00

Coffee break

11.00-11.30

Gerald Teschl

University of Vienna, AT

Inverse scattering theory for one-dimensional Schroedinger operators with steplike finite-gap background

11.30-12.20

Ryszard Szwarc

University of Wroclaw, PL

Uniform convergence of partial sums of Fourier series with respect to certain orthogonal systems

12.20-13.10

Søren Fournais

Aarhus University, DK

Lecture

13.10

Lunch

Session 6: Contributed Talks

Parallel Session A

15.00-15.40

Malcolm Brown

University of Cardiff, UK

15.45-16.25

Matthias Langer

University of Strathclyde, UK

16.25-16.40

Coffee break

16.40-17.20

Olaf Post

HU Berlin, DE

17.25-17.55

Marlena Nowaczyk

Lund University, SE

18.00-18.30

Victor Mikhaylov

University of Alaska, US

19.00

Bonfire dinner

Parallel Session B

15.00-15.40

Joanne Dombrowski

Wright State University, US

15.45-16.25

Monique Combescure

Université Claude Bernard, FR

16.25-16.50

Coffee break

16.50-17.20

Françoise Truc

University of Grenoble, FR

17.25-17.55

Dmitry Chelkak

St. Petersburg State University, RU

Thursday, 19 June

Session 7

Chair: **Serguei Naboko**, St. Petersburg State University, RU

08.30-09.20

Gunter Stolz

University of Alabama at Birmingham, US

Simplicity of eigenvalues in the Anderson Model

09.20-10.10

David Damanik

Rice University, US

Spectral dimensions and transport exponents

10.10-11.00

Vladimir Georgescu

University of Cergy-Pontoise 2, FR

Spectral analysis of many-body systems

11.00-11.30

Coffee break

11.30-12.20	Robert Seiringer Princeton University, US <i>Spectral analysis of the BCS gap equation</i>
12.20	Lunch
13.30	Half-day excursion to Wolsztyn
19.00	Dinner

Friday, 20 June

Session 8

Chair: **Pavel Kurasov**, Lund Institute of Technology, SE

08.30-09.20	Uzy Smilansky The Weizmann Institute of Science, IL <i>Quantum chaos on discrete graphs</i>
09.20-10.10	Boris Pavlov University of Auckland, NZ <i>Compensation of singularities in Krein formula</i>
10.10-11.00	Yulia Karpeshina University of Alabama at Birmingham, US <i>Lecture</i>
11.00-11.30	Coffee break
11.30-12.20	Vladimir Peller Michigan State University, US <i>Approximation by analytic matrix functions in L^p</i>
12.20-13.10	Rafael Del Rio Universidad Nacional Autonoma de Mexico, MX <i>Spectral Averaging</i>
13.10	Lunch

Session 9: Contributed Talks

Parallel Session A

15.00-15.40	Alexander Kheifets University of Massachusetts, US
15.45-16.15	Luis Silva Universidad Nacional Autónoma de México, MX
16.20-16.40	Coffee break
16.40-17.10	Sergey Simonov St. Petersburg State University, RU
17.15-17.45	
19.00	Dinner

Parallel Session B

15.00-15.40	Lech Zielinski Université du Littoral, FR
15.45-16.15	Marcin Moszynski University of Warsaw, PL
16.20-16.40	Coffee break
16.40-17.10	Maria Malejki AGH University of Science and Technology, PL
17.15-17.45	Irina Pchelintseva University College London, UK

Saturday, 21 June

Session 10

Chair: Jan Janas, Polish Academy of Sciences, PL

08.30-09.20	Grigori Rozenblioum Chalmers University of Technology, SE <i>Spectral properties of the perturbed Landau and Toeplitz-Bargmann operators</i>
09.20-10.10	Daphne Gilbert Dublin Institute of Technology, IR <i>Some issues in the spectral analysis of one-dimensional Schroedinger operators</i>
10.10-11.00	Coffee break
11.30-12.20	Peter Stollmann Technische Universität Chemnitz, DE <i>The intrinsic metric, solutions and energy estimates for strictly Dirichlet forms</i>
12.20-13.10	Rupert Frank Royal Institute of Technology, SE <i>Lecture</i>
13.10	Lunch

Session 11: Contributed Talks

Parallel Session A

15.00-15.40	Evgeny Korotyaev Humboldt Universität zu Berlin, DE
15.45-16.25	Kazuo Watanabe Gakushuin University, JP
16.25-16.50	Coffee break
16.50-17.20	Helge Krueger Rice University, US
17.25-17.55	

Parallel Session B

15.00-15.40	Stephen Clark Missouri University of Science and Technology, US
15.45-16.25	Vsevolod Chernyshev Bauman Moscow State Technical University, RU
16.25-16.50	Coffee break
16.50-17.20	Dariusz Cichon Jagiellonian University, PL
17.25-17.55	Wojciech Motyka Polish Academy of Sciences, PL

Session 12: Forward Look

Chair: Jan Janas, Polish Academy of Sciences, PL

18.00-19.00	Forward Look Plenary Discussion
19.30	Get-together & Conference Dinner

Sunday, 22 June

Breakfast & Departure

Abstracts, Posters & Short Oral Presentations

There will be no posters. All abstracts have been accepted as short oral contributions.