Memorial conference on
Spectral Theory of Partial Differential operators

Programme (draft)

Monday 19

8:00 – 9:00 - Breakfast

9:00 – 9:05 Introduction (A.Laptev)

9:05-9:30 (memorial speeches – G.Rosenblum, D.Yafaev)

9:30 – 10:15 - *On the spectral theory of substitution dynamical systems* - Boris Solomyak

10:15-10:45 - Coffee break

10:45 – 11:30 - *Bounds for eigenfunctions of the Laplacian on non-compact Riemannian manifolds* - Vladimir Maz'ya

11:45 – 12:30 - *Is (quasi) analyticity relevant to financial markets?* - Yakar Kannai

12:30-14:00 – Lunch

14:00 – 14:45 - *Spectral approach to homogenization of periodic differential operators* - Tatiana Suslina

15:00 – 15:45 – *A solution of M.G. Krein's problem concerning the Lifshitz - Krein trace formula* - Vladimir Peller

15:45-16:15 - Coffee break

16:15 – 17:00 – *Trace formulas for pairs of m-dissipative operators and contractions* – Mark Malamud

Tuesday 20

8:00 – 9:30 - Breakfast

9:30 – 10:15 – *Implications of Anderson Localization in the time domain* - Uzy Smilansky

10:15-10:45 - Coffee break

10:45 – 11:30 - *Some recent results on growth of Sobolev norms for time dependent Schrödinger evolutions*- Didier Robert

11:45 – 12:30 - *Functional calculus for self-adjoint operators under the Kato smoothness condition* - Alexander Pushnitski

12:30-14:00 – Lunch

14:00 – 14:45 – *Spectral asymptotics for 1D perturbations of positive compact operators and small ball probabilities for Gaussian random functions* - Alexander Nazarov

15:00 – 15:45 – *On the linearized version of the symplectic capacity* - Efim Gluskin

16:00 – 16:45 – *Hadamard formula for eigenvalues of the Dirichlet and Neumann problems for elliptic operators on C^1 and C^{1,\alpha} – domains* - Vladimir Kozlov

Wednesday 21

8:00 – 9:30 - Breakfast

9:30 – 10:15 - *Many Body Localization and Anderson Model on Random Regular Graphs* - Boris Altshuler

10:15-10:45 - Coffee break

10:45 – 11:30 - *Trace ideal versions of the Stein-Tomas theorem* - Rupert Frank

11:45 – 12:30 - *Analytic definition of spin structure* - Dmitri Vassiliev

12:30-14:00 – Lunch

14:00 – 14:45 – *Classification and factorization of linear ordinary differential operators* - Sergei Yakovenko

15:00 – 15:45 – *Curved version of the Radon inversion formula* - Simon Gindikin

19:00 – Conference dinner

Thursday 22

8:00 – 9:30 - Breakfast

9:30 – 10:15 - *The Spectrum of a Harmonic Oscillator Operator Perturbed by δ - Interactions* - Boris S. Mityagin

10:15-10:45 - Coffee break

10:45 – 11:30 – *Semiclassical spectral bounds with remainder terms* - Timo Weidl

11:45 – 12:30 - *Maxwell operator in a cylinder with coefficients that do not depend on the longitudinal variable* - Nikolai Filonov

12:30-14:00 – Lunch

14:00 – 14:45 – 45 – *Sharp constants and correction terms in a class of interpolation inequalities* - Alexei Ilyin

15:00 – 15:45 – *Remarks on Pleijel's theorem* - Thomas Hoffmann-Ostenhof

16:00 – 16:45 – *Asymptotics of the ground state energy for relativistic heavy atoms and molecules* - Victor Ivrii