# Spectral Theory and Applications

## Location: SU, Kräftriket, Building 5, room no. 14

- **Thursday, March 17**

  14:00 – 14:40 Pavel Exner: *Asymptotic expansions for singular Schrödinger operators*

  14:45 – 15:25 Malcolm Brown: *Uniqueness for an inverse problem in electromagnetism with partial data*

  **Coffee break**

  16:00 – 16:25 Tom Koornwinder: *Solutions of the system of pde's for Appell hypergeometric $F_2$, a tribute to Per O.M. Olsson*

  16:30 – 16:55 Joachim Toft: *Harmonic oscillator and its inverse*

  17:00 – 17:25 Rostyslav Kozhan: *Multiplicative non-Hermitian perturbations of Jacobi matrices*

- **Friday, March 18**

  14:00 – 14:25 Olaf Post: *Abstract graph-like space and vector-valued metric graphs*

  14:30 – 14:55 Jesus Dehesa: *Entropic properties of orthogonal polynomials. Asymptotics and physical applications*

  15:00 – 15:25 Francoise Truc: *Topological resonances on quantum graphs*

  **Coffee break**

  16:00 – 16:25 Miloslav Znojil: *Stone theorem and the three-Hilbert-space representation of quantum systems*

  16:30 – 16:55 Oleg Reinov: *Symmetry of spectra of nuclear operators*

  17:00 – 17:25 Ralf Rueckriemen: *Locality of the heat kernel*

- **Saturday, March 19**

  14:00 – 14:40 Ari Laptev: *On factorisation of a class of Schrödinger operators*

  14:45 – 15:25 Anne Boutet de Monvel: *On large eigenvalues of Jacobi matrices of Jaynes-Cummings type*

  **Coffee break**

  16:00 – 16:25 Peter Yuditskii: *On Kotani's program*

  16:30 – 16:55 Joachim Kerner: *Two interacting particles on the half-line*

  17:00 – 17:25 Yurii Melnikov: *New spectral estimations for a class of integral-difference operators and generalisation to higher dimensions*