Student conference

Methods of Algebra and Functional Analysis In Applications

Telč, May 15–18, 2023

Monday 15/5, chair: M. Tušek	
$8^{50} - 9^{00}$	**Opening**
$9^{00} - 9^{30}$	**Romana Kvasničková** Weakly coupled bound states in semi-Dirac semi-metals
$9^{30} - 10^{00}$	**Michal Jex** Visualising Quantum Mechanics
$10^{00} - 10^{30}$	**Coffee break**
$10^{30} - 11^{20}$	**František Štampach** The Schur test
$11^{30} - 13^{00}$	**Lunch break**
$13^{00} - 13^{30}$	**Tomáš Hrdina** Spectrum of the discrete bilaplace operator with complex potential
$13^{30} - 14^{00}$	**Vojtěch Bartoš** Pseudospectrum and spectral stability of the discrete Schrödinger operator with a complex step potential
$14^{00} - 14^{30}$	**Coffee break**
$14^{30} - 15^{00}$	**David Kramár** Spectral stability of a relativistic quantum particle on a half-line
$15^{00} - 15^{30}$	**Jan Havel** Pseudospectra in an operator-theoretic description of black holes
$16^{00} - 22^{00}$	**Working on projects**

Tuesday 16/5, chair: B. Gerhat	
$9^{00} - 9^{30}$	**Tomáš Kalvoda** Kato's Upper and Lower Estimates of Eigenvalues
$9^{30} - 10^{00}$	**Lukáš Heriban** Non-local delta shell interactions for the Dirac operator
$10^{00} - 10^{30}$	**Coffee break**
$10^{30} - 11^{20}$	**Matěj Tušek** Superbrief introduction to supersymmetric methods
$11^{30} - 13^{00}$	**Lunch break**
$13^{00} - 13^{30}$	**Patrik Šnauko** New families of orthogonal polynomials generated from the level 1 solution of the Heun equation and spectra of the corresponding Jacobi matrices
$13^{30} - 14^{00}$	**Petr Blaschke** Calculus using hypergeometric functions
$14^{00} - 14^{30}$	**Coffee break**
$14^{30} - 15^{00}$	**Ruben Karapetyan** Discrete Dirac operator and its non-relativistic limit
$15^{00} - 15^{30}$	**Ondřej Šrámek** Magnetic effects in the spectrum of laterally coupled layers
$16^{00} - 22^{00}$	**Working on projects**

Thursday 18/5, chair: F. Štampach	
$9^{00} - 9^{30}$	**Borbala Gerhat** Criticality analysis of fractional discrete Laplacians
$9^{30} - 10^{00}$	**Duc Tho Nguyen** Dirac operator with a discontinuous complex potential
$10^{00} - 10^{30}$	**Coffee break**
$10^{30} - 11^{00}$	**Michele Zaccaron** Shape sensitivity analysis of a Maxwell's cavity problem
$11^{00} - 11^{30}$	**Rudolf Šmolka** Groups Like Stars in the Night Sky
$11^{30} - 11^{40}$	**Closing**
$11^{45} - 13^{00}$	**Lunch break**