

QMath11 - MONDAY, SEPTEMBER 6

| Time | Plenary / Session 1 / General | Time | Session 2 | Time | Session 3 |
|-------------|---|-------------|---|-------------|--|
| | AULA | | A1 | | A2 |
| | Plenary session | | | | |
| 09.00-09.15 | P.Exner, UHK representatives Conference opening | | | | |
| | Plenary session <i>Chair: Arne Jensen</i> | | | | |
| 09.15-10.15 | Mathieu Lewin Renormalization of Dirac's polarized vacuum | | | | |
| 10.15-10.45 | <i>Coffee break</i> | | | | |
| | Plenary session <i>Chair: Rafael Benguria</i> | | | | |
| 10.45-11.45 | Alessandro Giuliani Renormalization group for interacting electrons on the honeycomb lattice | | | | |
| | Plenary session <i>Chair: Thomas Hoffmann-Ostenhof</i> | | | | |
| 11.50-12.50 | Robert Sims Lieb-Robinson bounds in quantum many-body physics | | | | |
| 12.50-14.15 | <i>Lunch break</i> | | | | |
| | Invited talks QC <i>Chair: Tomaz Prosen</i> | | Contributed talks ST <i>Chair: Rupert Frank</i> | | Contributed talks QFT <i>Chair: Benjamin Schlein</i> |
| 14.15-14.55 | Lea Ferreira dos Santos Onset of quantum chaos in one-dimensional many-body systems and its relation to thermalization | 14.15-14.45 | Ivan Veselić Fractional moment method for non-monotone models | 14.15-14.45 | Edwin Langmann Exact solution of a 2+1 dimensional interacting fermion model |
| 15.00-15.40 | Stephane Nonnenmacher Quantized open chaotic systems | 14.50-15.20 | Vladimir Lotoreichik Weak disorder in the Kronig-Penney model: stability of the absolutely continuous spectrum and eigenvalues in gaps | 14.50-15.20 | Annalisa Panati Infrared aspects of a model of QFT on a static space time |
| 15.45-16.25 | Klaus Richter Classical orbit correlations: the key for understanding universality in quantum chaotic system | 15.25-15.55 | Denis Borisov Homogenization of the waveguides with frequent alternation boundary condition | 15.25-15.55 | Petr Siegl Krein spaces in de Sitter quantum |
| | | 16.00-16.30 | Helena Šediváková Effective Hamiltonian in curved quantum waveguides as a consequence of strong resolvent convergence | 16.00-16.30 | Jaroslav Dittrich Topological charges for finite energy fields in a sigma-model |
| 16.30-17.00 | <i>Coffee break</i> | | | | |
| | Contributed talks QI <i>Chair: Sergey Naboko</i> | | Contributed talks ST <i>Chair: Michael Gruber</i> | | |
| 17.00-17.30 | Martin Fraas Optimal parametrizations of adiabatic paths | 17.00-17.30 | Igor Popov Spectral problems and quantum features of fluid flow in nanotube | | |
| 17.35-18.05 | Claudia Zander Uncertainty relations and entanglement in fermion systems | 17.35-18.05 | Tomáš Kalvoda Resonant cyclotron acceleration of particles by a time periodic singular flux tube | | |
| 18.10-18.40 | Mahdi Rezaei Karamati Molecular solution for the subset-sum problem on DNA-based quantum computing | 18.10-18.40 | Hiroaki Niikuni On the degenerate spectral gaps of the one-dimensional Schrödinger operators with periodic point interactions | | |