

Monday, January 25

Morning session

Chairperson: G. Chadzitaskos

- 09:00 – 09:50 **Daniel Vařata**
Entropic uncertainty relations
- 10:00 – 10:30 **Michal Jex**
Toy Models with Singular Interactions in 1D
- 10:35 – 11:05 **Martin Malachov**
Permutation, Pauli and Hadamard matrices as modification for chaotic behaviour in entanglement purification
- 11:05 – 11:25 *Intermission*
- 11:25 – 11:55 **Lenka Motlochova**
Fundamental domain of extended affine Weyl group
- 12:00 – 12:30 **Josef Navratil**
Reaction-diffusion systems with non-differentiable nonlinearities

Tuesday, January 26

Morning session

Chairperson: L. Hlavatý

- 09:00 – 09:50 **Aneta Slizewska**
Introduction to inverse semigroups theory
- 10:00 – 10:30 **Martyna Żuk**
Wagner representation theorem
- 10:35 – 11:05 **Jiří Maryška**
Asymptotic properties of quantum markov processes
- 11:05 – 11:25 *Intermission*
- 11:25 – 11:55 **Stanislav Skoupý**
Quantum walks and their use in search algorithm and quantum communication
- 12:00 – 12:30 **Daniel Gromada**
Construction of realizations of Lie algebras

Afternoon session

Chairperson: P. Bóna

- 15:00 – 15:50 **Michal Širaň**
Lie's Third Theorem for L_∞ -algebroids
- 16:00 – 16:30 **Adam Brus**
Basics of Orthogonal Polynomials
- 16:40 – 17:10 **Iveta Semorádová**
Time-dependent metrics in crypto-Hermitian quantum mechanics

The 25th Student Conference "Winter School on Mathematical Physics"

24 - 30 January 2016

Wednesday, January 27

excursions, skiing

Thursday, January 28

Morning session

Chairperson: M. Fecko

- 09:00 – 09:50 **Petr Novotný**
Concepts of stability, stability of rotating free rigid body
- 10:00 – 10:30 **Jaroslav Kysela**
Equilibration in Quantum Networks
- 10:35 – 11:05 **Zuzanna Sztabińska**
Kummer shape algebra
- 11:05 – 11:25 *Intermission*
- 11:25 – 11:55 **Elwira Wawreniuk**
Quantum Kummer shape algebra
- 12:00 – 12:30 **Krzysztof Bardadyn**
Poincaré method in linear perturbation theory

Friday, January 29

Morning session

Chairperson: A. Odziejewicz

- 09:00 – 09:50 **Marián Fecko**
Surfaces which behave like vortex lines
- 10:00 – 10:30 **Helena Kolečová**
Neutrino oscillations and masses
- 10:35 – 11:05 **Mária Šubjaková**
Gaussian optics from linear
- 11:05 – 11:25 *Intermission*
- 11:25 – 11:55 **Václav Zatloukal**
Electrodynamics with geometric calculus
- 12:00 – 12:30 **Josef Schmidt**
Isaacson's high frequency limit