

Monday, January 23

Morning session

Chairperson: G. Chadzitaskos

- 09:00 – 09:50 **Daniel Vařata**
Duality between the spectra of Schrödinger operators on quantum graphs and discrete Laplacians on underlying combinatorial graphs.
- 10:00 – 10:30 **Josef Navrátil**
Critical and bifurcation points for equations with Lipschitz nonlinearities
- 10:35 – 11:05 **Helena Kolečová**
Unbearable lightness of neutrinos
- 11:05 – 11:25 *Intermission*
- 11:25 – 11:50 **Stanislav Skoupý**
State transfer by means of discrete-time quantum walks
- 11:55 – 12:20 **Daniel Gromada**
Classification of Lie algebra realizations

Tuesday, January 24

Morning session

Chairperson: M. Fecko

- 09:00 – 09:50 **Ivo Petr**
Lattice-based cryptography
- 10:00 – 10:30 **Václav Zatloukal**
Generalizing Complex-Plane Integration Formulas to Higher Dimensions
- 10:35 – 11:05 **Radek Novák**
Grushin problem
- 11:05 – 11:25 *Intermission*
- 11:25 – 11:50 **Jan Kotrbatý**
Lie fields and representations of the Poincaré groups
- 11:55 – 12:20 **Tereza Štefková**
Trapping in quantum walks

Afternoon session

Chairperson: L. Hlavatý

- 15:00 – 15:30 **Lenka Motlochová**
Application of Burnside’s lemma in discrete Fourier-like analysis
- 15:35 – 16:00 **Jan Vábek**
Full Saddle Point Approximation For Single Active Electron Response During High Harmonic Generation
- 16:05 – 16:30 **Patrik Urban**
Introduction to conformal theory of gravity
- 16:35 – 17:00 **Vojtěch Teska**
Orthogonal Subalgebras and Finite Quantum Systems
- 17:05 – 17:30 **Filip Garaj**
Cotton tensor

The 26th Student Conference “Winter School on Mathematical Physics”

22 - 28 January 2017

Wednesday, January 25

excursions, skiing

Thursday, January 26

Morning session
Chairperson: J. Tolar

- 09:00 – 09:50 **Marián Fecko**
Electrodynamics and non-inertial frames
- 10:00 – 10:30
- 10:35 – 11:00 **Marie Fialová 25**
Direct Integral and Landau Hamiltonian
- 11:00 – 11:20 *Intermission*
- 11:20 – 11:50 **Matěj Tušek 30**
On some extensions of the Iwatsuka model
- 11:55 – 12:20 **Kateřina Zahradová**
How to frame a curve

Friday, January 27

Morning session

Chairperson: A. Odziejewicz

- 09:00 – 09:50 **Václav Potoček**
Orbital Angular Momentum of Light
- 10:00 – 10:30 **Martin Malachov**
Numerical Analysis of Chaos in Entanglement Purification of Mixed States
- 10:35 – 11:05 **Peter Mészáros**
CMB anisotropies in the presence of elastic matter
- 11:05 – 11:25 *Intermission*
- 11:25 – 11:50 **Bernard Rybołowicz**
TBA
- 11:55 – 12:20 **Krzysztof Bardadyn**
TBA

| Time | Monday 23.1. | Tuesday 24.1. | Wednesday | Thursday 26.1. | Friday 27.1 |
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| 50 | Vašata | Petr | | Fecko | Potoček |
| 30 | Navrátil | Zatloukal | | | Malachov |
| 30 | Kolešová | Novák | | Fialová 25 | Mészáros |
| 25 | Skoupý | Kotrbatý | | Tušek 30 | Rybołowicz |
| 25 | Gromada | Štefková | | Zahradová | Bardadyn |
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| 30 | | Motlochová | | | |
| 25 | | Vábek | | | |
| 25 | | Urban | | | |
| 25 | | Teska | | | |
| 25 | | Garaj | | | |