

The 12th international microconference  
**Analytic and algebraic methods in physics**

November 2nd, 2013, Villa Lanna, Prague

the meeting dedicated to the 75th birthday of professor Miloslav  
**Havlíček**

→ **programme** ←

<b>Saturday, November 2nd, 2013</b>	
9:00 - 9:15	OPENING
9:15 - 12:25	MORNING TALKS
12:25 - 14:00	LUNCH
14:00 - 18:00	AFTERNOON TALKS
18:30	CONFERENCE DINNER

# THE LIST OF TALKS

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Morning Programme	
9:00 - 9:15	OPENING
Session I: <b>Algebras and Symmetries</b> Chair: <b>Igor Jex</b>	
9:15 - 9:45	<b>Valeriy N. Tolstoy</b> (Moscow State University) <i><math>\mathbb{Z}_2 \times \mathbb{Z}_2</math>-graded Supersymmetries</i>
9:50 - 10:10	<b>Libor Šnobl</b> (CTU Prague) <i>Classification of solvable &amp; Levi decomposable Lie algebras</i>
Session II: <b>Effect Algebras</b> Chair: <b>Edita Pelantová</b>	
10:20 - 10:40	<b>Silvia Pulmannová</b> (SAN Bratislava) <i>Effect algebras with state operator and conditional expectations</i>
10:45 - 11:05	<b>Zdenka Riečanová</b> (STU Bratislava) <i>Blocks in pairwise summable generalized effect algebras</i>
11:05 - 11:30	coffee break
Session III: <b>Representation Theory</b> Chair: <b>Miloslav Znojil</b>	
11:30 - 12:00	<b>Čestmír Burdík</b> (CTU Prague) <i>Extremal vectors for Verma type representations of semisimple algebras and quantum groups</i>
12:05 - 12:25	<b>Severín Pošta</b> (Doppler Institute, CTU Prague) <i>Verma bases for representations of simple Lie algebras</i>
12:30 - 14:00	LUNCH

# THE LIST OF TALKS

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<b>Afternoon Programme</b>	
session IV: <b>Algebra and Combinatorics</b> Chair: <b>Silvia Pulmannová</b>	
14:00 - 14:30	<b>Zuzana Masáková</b> (Doppler Institute, CTU Prague) <i>From quasicrystals to infinite words and numeration systems</i>
14:35 - 14:55	<b>Agnieszka Tereszkievicz</b> (University of Białystok) <i>Permanents – past and present</i>
Session V: <b>Noncommutative and Relativistic Physics</b> Chair: <b>Valeriy Tolstoy</b>	
15:05 - 15:35	<b>Peter Prešnajder</b> (UKo Bratislava) <i>Coulomb scattering in noncommutative quantum mechanics</i>
15:40 - 16:00	<b>Patrick Moylan</b> (PSU Abington, PA) <i>Applications of Localization in Physics</i>
16:05 - 16:25	<b>Edward Kapuscik</b> (Łódź University) <i>On a fatal error in tachyonic physics</i>
16:25 - 16:55	coffee break
Session VI: <b>Quantum Physics</b> Chair: <b>Peter Prešnajder</b>	
16:55 - 17:25	<b>Igor Jex</b> (Doppler Institute, CTU Prague) <i>Iterated quantum operations</i>
17:30 - 18:00	<b>Pavel Exner</b> (Doppler Institute, CTU Prague) <i>Resonances in quantum graphs and their generalizations</i>
18:00	End of the meeting