

**The 11th international microconference
Analytic and algebraic methods in physics**

October 30 - November 1, 2013, Villa Lanna, Prague

→ **programme** ←

(the “day after” final version)

Tuesday, October 29th, 2013	
all day: ARRIVALS & INFORMAL INITIATIVES	
Wednesday, October 30th, 2013	
9:30	OPENING
9:30 - 12:30 and 14:00 - 17:30	TALKS: SESSIONS I - IV
Thursday, October 31st, 2013	
9:30 - 12:30 and 14:00 - 17:30	TALKS: SESSIONS V - VIII
Friday, November 1st, 2013	
9:30 - 12:30 and 14:00 - 17:30	TALKS: SESSIONS IX - XII
17:30	CLOSURE
Saturday, November 2nd, 2013	
DEPARTURES	

LIST OF TALKS

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October 30th: Wednesday

morning programme	
9:30	OPENING
session I: PT-symmetry I chair: Hugh Jones	
9:30 - 10:05	Daniel Hook (London) <i>Poles and turning points in complexified classical mechanics</i>
10:10 - 10:45	Fabio Bagarello (Palermo) <i>Mathematical aspects of non self-adjoint Hamiltonians</i>
10:50 - 11:10	coffee break
session II: theoretical physics chair: Peter Leach	
11:10 - 11:45	Vladimir Gerdt (Dubna) <i>Singular field theories, Lagrangean constraints and Thomas decomposition</i>
11:50 - 12:25	Satoshi Ohya (Děčín) <i>Recurrence Relations for CFT Correlators: A Potential Algebra Approach</i>
12:30 - 14:00	LUNCH

LIST OF TALKS

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October 30th: Wednesday

Afternoon programme

session III: PT symmetry II chair: Ali Mostafazadeh	
14:00 - 14:35	Holger Cartarius (Stuttgart) <i>Stability of Bose-Einstein condensates in PT-symmetric traps close to branch points</i>
14:40 - 15:15	Francisco M Fernández (La Plata) <i>On the eigenvalues of some nonhermitian oscillators</i>
15:20 - 15:55	Géza Lévai (Debrecen) <i>PT symmetrization of non-trivial solvable potentials</i>
16:00 - 16:15	coffee break
session IV: effect algebras chair: Z. Riečanová	
16:15 - 16:50	Jan Paseka (Brno) <i>On Realization of Partially Ordered Abelian Groups</i>
16:55 - 17:30	Jiří Janda (Brno) <i>On Bilinear Forms from the Point of View of Generalized Effect Algebras</i>
17:30	THE END OF THE FIRST DAY

LIST OF TALKS

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October 31st: Thursday

morning programme	
session V: quantum scattering chair: Bijan Bagchi	
9:30 - 10:05	Sergey Kuzhel (Cracow) <i>Elements of scattering theory for PT-symmetric operators</i>
10:10 - 10:45	Ali Mostafazadeh (Istanbul) <i>A dynamical theory of one-dimensional scattering</i>
10:50 - 11:10	coffee break
session VI: PT symmetry III chair: Daniel Hook	
11:10 - 11:45	Hugh F. Jones (London) <i>The Floquet Method for PT-symmetric Periodic Potentials</i>
11:50 - 12:25	Philipp Ambichl (Vienna) <i>Breaking of PT-symmetry in bounded and unbounded scattering systems</i>
12:30 - 14:00	LUNCH

LIST OF TALKS

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October 31st: Thursday

Afternoon programme

session VII: quantum models chair: Géza Lévai	
14:00 - 14:35	M. Howard Lee (Athens (USA)) <i>General and complete solution of 3-cycle problem in the logistic map</i>
14:40 - 15:15	Robin Hudson (Loughborough (UK)) <i>Why quantum stochastic double products matter, in mathematics and physics</i>
15:20 - 15:55	Bijan Bagchi (Kolkata) <i>Lienard oscillator and MDM/NHQM correspondence</i>
16:00 - 16:15	coffee break
session VIII: quantization techniques chair: M. Howard Lee	
16:15 - 16:50	Peter G. L. Leach (Durban) <i>Dirac and Hamilton</i>
16:55 - 17:30	Anatoly Nikitin (Kyiv) <i>Laplace-Runge-Lenz vector with spin</i>
17:30	THE END OF THE SECOND DAY

LIST OF TALKS

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November 1st: Friday

morning programme	
session IX: PT symmetry IV chair: Sergii Kuzhel	
9:30 - 10:05	Kwang Shin (Carrollton (USA)) <i>On the reality of eigenvalues of PT-symmetric oscillators</i>
10:10 - 10:45	Radek Novák (Řež) <i>Bound states in \mathcal{PT}-symmetric layers</i>
10:50 - 11:10	coffee break
session X: theoretical physics chair: Ingrid Rotter	
11:10 - 11:45	Teoman Turgut (Istanbul) <i>Bose Einstein condensation on curved manifolds via Bogoliubov theory</i>
11:50 - 12:25	Vít Jakubský (Řež) <i>Carbon nanotubes in an transverse magnetic field: exactly solvable model</i>
12:30 - 14:00	LUNCH

LIST OF TALKS

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November 1st: Friday

Afternoon programme

session XI: singular interactions chair: Fabio Bagarello	
14:00 - 14:35	Petr Siegl (Bern) <i>Basis properties of perturbations of the harmonic oscillator type operators</i>
14:40 - 15:15	Günter Wunner (Stuttgart) <i>A Bose-Einstein condensate with \mathcal{PT} symmetric double-delta function loss and gain in a harmonic trap</i>
15:20 - 15:55	David Krejčířík (Řež) <i>Wild basis properties of the imaginary cubic oscillator</i>
16:00 - 16:15	coffee break
session XII: theoretical physics chair: Günter Wunner	
16:15 - 16:50	Ingrid Rotter (Dresden) <i>Exceptional points and nonlinear Schrödinger equation.</i>
16:55 - 17:30	Peter Prešnajder (Bratislava) <i>Laplace-Runge-Lenz Vector in Noncommutative Quantum Mechanics</i>
17:30	THE END OF THE MEETING