

Analytic and algebraic methods in physics (AAMP 13)

Prague, June 6–9, 2016

Schedule

Monday, June 6

09.00 - 09.50	<i>Registration</i>
09.50 - 10.00	<i>Welcome & Opening</i>
10.00 - 10.25	Pavel Exner: <i>A small step for the coupling constant but a giant leap for the spectrum</i>
10.30 - 11.00	<i>Coffee break</i>
11.00 - 11.25	Rafael Tiedra de Aldecoa: <i>Commutator criteria for strong mixing</i>
11.30 - 11.55	Emanuela Caliceti: <i>An existence criterion for the PT-symmetric phase transition in higher dimension</i>
12.00 - 14.00	<i>Lunch break</i>
14.00 - 14.25	Günter Wunner: <i>The octagon method for finding exceptional points, and application to resonances of hydrogen-like systems in parallel electric and magnetic fields</i>
14.30 - 14.55	Qinghai Wang: <i>Non-linear Eigenvalue Problems and PT-symmetric Potentials</i>
15.00 - 15.30	<i>Coffee break</i>
15.30 - 15.55	Teoman Turgut: <i>Born-Oppenheimer approximation in a singular system</i>
16.00 - 16.25	Juraj Boháčik: <i>Propagator for quartic oscillator with time dependent parameters</i>

Tuesday, June 7

09.30 - 9.55	Dorje Brody: <i>Quantum Thermodynamics</i>
10.00 - 10.25	Géza Lévai: <i>Unavoided crossing of energy levels in PT-symmetric Natanzon-class potentials</i>
10.30 - 11.00	<i>Coffee break</i>
11.00 - 11.25	Yogesh Joglekar: <i>PT breaking transitions in dissipative two-level Floquet system</i>
11.30 - 11.55	M Howard Lee: <i>Hamilton-Jacobi trajectories of comets Kohoutek and ISON: A novel approach to celestial dynamics</i>
12.00 - 14.00	<i>Lunch break</i>
14.00 - 14.25	Carl M. Bender: <i>Some new results on PT symmetry</i>
14.30 - 14.55	Eva-Maria Graefe: <i>Quasiclassical analysis of Bloch oscillations in non-Hermitian tight-binding lattices</i>
15.00 - 15.30	<i>Coffee break</i>
15.30 - 15.55	Daniel Hook: <i>A study Hamiltonians with a logarithmic dependence</i>
19.00 - 22.00	<i>Conference dinner</i>

Wednesday, June 8

10.00 - 10.25	Ali Mostafazadeh: <i>Transfer matrix formulation of scattering theory in arbitrary dimensions</i>
10.30 - 11.00	<i>Coffee break</i>
11.00 - 11.25	Sergeii Kuzhel: <i>A class of solvable models with nonlocal point interactions</i>
11.30 - 11.55	Carsten Trunk: <i>On \mathcal{PT} symmetric operators in Krein spaces</i>
12.00 - 14.00	<i>Lunch break</i>
14.00 - 14.25	Vladimir Lotoreichik: <i>Spectra of definite type in waveguide models</i>
14.30 - 14.55	Ingrid Rotter: <i>Higher-order exceptional points</i>
15.00 - 15.30	<i>Coffee break</i>
15.30 - 15.55	Dieter Heiss: <i>Three coupled wave guides and third order exceptional points</i>

Thursday, June 9

09.30 - 9.55	Raymond F. Bishop: <i>Journeys to and in Quantum Phase Space: Extended Quantum Phase-Space Formulations of Quantum Many-Body Theory and Quantum Information Theory</i>
10.00 - 10.25	Joshua Feinberg: <i>Self-Adjoint Wheeler-DeWitt Operators, the Problem of Time and the Wave Function of the Universe</i>
10.30 - 11.00	<i>Coffee break</i>
11.00 - 11.25	Štěpán Starosta: <i>Number theory and spectral instabilities in metamaterials</i>
11.30 - 11.55	Vít Jakubský: <i>Dispersionless wave packets in Dirac systems</i>
12.00 - 14.00	<i>Lunch break</i>
14.00 - 14.25	Pavel Winternitz: <i>Superintegrable systems in classical and quantum mechanics. Background, ideas and new developments.</i>
14.30 - 14.55	Francisco Correa: <i>Regularized degenerate multi-solitons</i>
15.00 - 15.30	<i>Coffee break</i>
15.30 - 15.55	Uwe Guenther: <i>From Landau-Ginzburg to PTQM</i>
16.00 - 16.25	Fabio Bagarello: <i>Bi-coherent states for pseudo-bosons and other stuff</i>
16.30 - 16.45	<i>Closing</i>