Analytic and algebraic methods in physics VI

May 9 - 11, 2010, Villa Lanna, Prague

TIMETABLE 1

Sunday, May 9, 2010	
Sunday, May 9, 2010	
12.00 - 13.15	EARLY ARRIVALS & REGISTRATIONS
13.15 - 13.20	INFORMAL OPENING
"Sunday school" session I. chair: M. Kibler	
13.20 - 13.55	**Milan Krbálek** (Czech Technical University, Prague) *"Analytical derivation of spectral rigidity for thermodynamical traffic gas"*
14.00 - 14.35	**Vít Jakubský** (Institute of Nuclear Physics, Řež) *"Hidden supersymmetry in Aharonov-Bohm model"*
14.40 - 15.00	break
"Sunday school" session II. chair: J. Paseka	
15.00 - 15.35	**Miloš Tater** (Institute of Nuclear Physics, Řež) *"Polynomial solutions of the Heun equation"*
15.40 - 16.15	**Severin Pošta** (Czech Technical University, Prague) *"Quantum deformations of orthogonal Lie algebras"*
16.20 - 17.00	WELCOME GLASS OF JUICE, GOSSIPING

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TIMETABLE 2

(Monday morning)

Monday, May 10, 2010	
9.00	OFFICIAL WELCOME
morning plenary session I. chair: C. Bender	
9.05 - 9.40	**M. Howard Lee** (University of Georgia, Athens) *"Analytical study of 3-cycles in a chaotic map"*
9.45 - 10.15	**Francisco M. Fernández** (INIFTA, La Plata) *"Two-particle harmonic oscillator in a one-dimensional box"*
10.20 - 10.50	**Sergii Kuzhel** (Institute of Mathematics NAS, Kiev) *"On the Concept of Stable C-symmetry in PTQM"*
10.50 - 11.10	coffee break
morning plenary session II. chair: A. Gabrielov	
11.10 - 11.40	**Ingrid Rotter** (Max-Planck-Institut, Dresden) *"The role of exceptional points in quantum systems"*
11.45 - 12.15	**Maurice Kibler** (Claude Bernard University, Lyon) *"SU(2) and SU(1,1) approaches to phase operator, temporally stable phase states, mutually unbiased bases and exactly solvable quantum systems"*
12.20 - 12.50	**Uwe Günther** (FZ, Dresden-Rossendorf) *"PTQM related Cartan and Clifford structures"*
12.50 - 14.00	LUNCH

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TIMETABLE 3

(Monday afternoon)

Monday, May 10, 2010	
12.50 - 14.00	LUNCH
afternoon plenary session I. chair: M. H. Lee	
14.00 - 14.35	**Andrei Gabrielov** (Purdue University, West Lafayette) *"Singular perturbation of polynomial potentials and real spectral loci"*
14.40 - 15.25	**Robin Hudson** (Loughborough University, UK) *"Sticky shuffle product algebras and their stochastic representations"*
15.30 - 15.45	coffee break
afternoon plenary session II. chair: U. Günther	
15.45 - 16.20	**Sandro Graffi** (Universitá di Bologna, Italy) *"Exact quantization formulae via uniformly convergent* *quantum normal forms"*
16.25 - 17.20	**Carl Bender** (Washington University, St. Louis) *"Complex Correspondence Principle"*
17.30	THE END OF THE FIRST DAY

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TIMETABLE 4

(Tuesday morning I)

Tuesday, May 11, 2010	
parallel morning session on effect algebras I. chair: R. Hudson	
9.00 - 9.25	**Zdenka Riečanová** (FEI STU, Bratislava) *"Subfamilies of lattice effect algebras with special properties of their important sub-lattice effect algebras*
9.30 - 9.55	**Silvia Pulmannová** (Mathematical Institute SAS, Bratislava, SR) *"Type-decompositions of effect algebras and similar algebraic structures I"*
10.00 - 10.25	**Vladimír Olejček** (Slovak Univ. of Technology, Bratislava) *"Atomic Archimedean MV-effect algebra need not be sharply dominating"*
10.30 - 10.50	**Martin Kalina** (Slovak Univ. of Technology, Bratislava) *"Bifullness of centers of lattice effect algebras"*
10.55 - 11.30	coffee break
parallel morning session on effect algebras II. chair: Z. Riečanová	
11.30 - 11.55	**Jan Paseka** (Masaryk University, Brno) *"States on Archimedean atomic lattice effect algebras"*
12.00 - 12.30	**Olga Nanasiová** (Slovak Univ. of Technology, Bratislava) *"Non-commutative functions and geometry on a quantum logic"*
12.35 - 12.50	ROUND TABLE DISCUSSION
12.50 - 14.00	LUNCH

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TIMETABLE 5

(Tuesday morning II)

Tuesday, May 11, 2010	
parallel morning session on mathematical physics I. chair: S. Graffi	
9.00 - 9.35	**Stefan Rauch-Wojciechowski** (Linköping University, Sweden) *"Qualitative analysis of Newton equations for rolling and gliding rigid body dynamics"*
9.40 - 10.15	**Daniel Hook** (Imperial College, London) *"The Complex Elliptic Pendulum"*
10.20 - 10.55	**Petr Siegl** (Univ. Paris-Diderot, Paris) *"Krein Spaces in de Sitter Quantum Theories"*
11.00 - 11.30	coffee break
parallel morning session on mathematical physics II. chair: F. M. Fernández	
11.30 - 12.05	**Oleg N. Kirillov** (Moscow State Lomonosov University) *"The role of exceptional points in describing the relation of standard and helical magnetorotational instability"*
12.10 - 12.45	**Jakub Železný** (Czech Technical University, Prague) *"Closed integral formula for the metric of a PT-symmetric model"*
12.50 - 14.00	LUNCH

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TIMETABLE 6

(Tuesday afternoon I)

Tuesday, May 11, 2010	
12.50 - 14.00	LUNCH
parallel afternoon session on combinatorics I. chair: E. Pelantová	
14.00 - 14.40	**Zuzana Masáková** (Czech Technical University, Prague) *"Balanced number systems with negative base"*
14.45 - 15.00	**Daniel Dombek** (Czech Technical University, Prague) *"Numbers with integer expansion in the numeration system with negative base"*
15.05 - 15.20	**Tomáš Vávra** (Czech Technical University, Prague) *"Arithmetics in number systems with negative base"*
15.25 - 15.40	coffee break
parallel afternoon session on combinatorics II. chair: Z. Masáková	
15.40 - 16.00	**Lubomíra Balková** (Czech Technical University, Prague) *"Generalization of Sturmian words"*
16.05 - 16.25	**Štěpán Starosta** (Czech Technical University, Prague) *"Θ-palindromes in infinite words"*
16.30 - 16.50	**Petr Ambrož** (Czech Technical University, Prague) *"Rauzy-like tilings in Ito-Sadahiro and symmetrized $(-\beta)$-numeration systems"*
16.55 - 17.00	downstairs: THE CLOSURE OF THE MEETING

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TIMETABLE 7

(Tuesday afternoon II)

Tuesday, May 11, 2010	
12.50 - 14.00	LUNCH
parallel afternoon session I. chair: I. Rotter	
14.00 - 14.35	**Steven Duplij** (V.N. Karazin Kharkov National University) *"On the Clairaut-type hamiltonization"*
14.40 - 15.15	**Eva-Maria Graefe** (University of Bristol) *"Classical limit of non-Hermitian quantum theories: A generalised canonical structure."*
15.20 - 15.50	coffee break
parallel afternoon session I. chair: M. Znojil	
15.50 - 16.15	**Hynek Bíla** (JINR Dubna and NPI ASCR Řež) *"Time-dependent metrics in non-Hermitian models"*
16.20 - 16.55	**Zdeněk Kabát** (CRM Montreal, Canada) *"Discretization of superintegrable systems on a plane"*
16.55 - 17.00	**CLOSURE, THE END OF THE MEETING**