Analytic and algebraic methods in physics VII March 17 - 18, 2011, Villa Lanna, Prague

THE PROGRAMME

the final update: March 19, 2011

We	ednesday, March 16, 2011	
	ARRIVALS	
T	hursday, March 17, 2011	
9.00 - 18.00	TALKS (with break for lunch)	
	details: see below	
Friday, March 18, 2011		
9.00 - 18.00	TALKS (with break for lunch)	
	details: see below	
Saturday, March 19, 2011		
	DEPARTURES	

Analytic and algebraic methods in physics VII (the first day)

Thursday, March 17, 2011		
9.00 - 9.05	OPENING	
session I. (effect algebras) chair: I. Rotter		
9.05 - 9.35	Zdenka Riečanová (Bratislava)	
	"Operator Effect Algebras in Hilbert Spaces"	
9.40 - 10.10	Jan Paseka (Brno)	
	"PT-Symmetry in (generalized) effect algebras"	
10.15 - 10.40	Martin Kalina (Bratislava)	
	"On centers of atomic Archimedean effect algebras"	
10.45 - 11.05	coffee break	
session	session II. (complexified mechanics) chair: H. F. Jones	
11.05 - 11.35	Daniel W. Hook (London)	
	"Tunnelling in classical mechanics"	
11.40 - 12.10	Eva-Maria Graefe (London)	
	"Wave packet evolution in non-Hermitian quantum systems"	
12.15 - 12.45	Dorje Brody (London)	
	"On complexified mechanics and quaternions"	
12.50 - 14.00	LUNCH	

Analytic and algebraic methods in physics VII (the first day, ctd.)

12.50 - 14.00	LUNCH
session	III. (exceptional points) chair: M. H. Lee
14.00 - 14.35	Boris Shapiro (Stockholm)
	"Heine-Stieltjes theory, exact and asymptotic results"
14.40 - 15.10	Günter Wunner (Stuttgart)
	"Exceptional points for nonlinear Schrödinger
	equations describing Bose-Einstein condensates"
15.15 - 15.50	Ingrid Rotter (Dresden)
	"Phase rigidity in many-level quantum systems"
15.55 - 16.20	coffee break
session	IV. (PT symmetry) chair: R. J. Rivers
16.20 - 16.50	Andreas Fring (London)
	"PT-symmetry breaking in complex nonlinear
	wave equations and their deformations"
16.55 - 17.30	Hugh F. Jones (London)
	"Theoretical Aspects of Diffraction
	from PT-symmetric Periodic Optical Lattices"
17.35 - 17.55	Monique Smith (London)
	"New solutions for antilinear deformations of
	Coxeter groups with applications to Calogero models"
18.00	THE END OF THE FIRST DAY

Analytic and algebraic methods in physics VII (the second day)

	Friday, March 18, 2011
9.00 - 9.05	announcements
session	V. (algebraic methods) chair: M. Kibler
9.05 - 9.40	Robin Hudson (Loughborough)
	"Quantum central limit theorems and invariance
	principles, quantum Levy area and random matrices"
9.45 - 10.15	Vladimir V. Kisil (Leeds)
	"Representations of the Heisenberg group
	and all sorts of mechanics"
10.20 - 10.50	coffee break

Analytic and algebraic methods in physics VII (the second day, ctd.)

10.20 - 10.50	coffee break
ses	sion VI. (minischool) chair: A. Fring
10.50 - 11.10	M Howard Lee (Athens)
	"Cyclic solutions in chaos, Sharkovskii's theorem
	and isomorphism"
11.15 - 11.35	Gabriela Malenová (Řež)
	"Asymptotic behaviour of the heat equation
	in twisted waveguides"
11.40 - 12.00	Helena Šediváková (Řež)
	"Effective Hamiltonian in curved quantum waveguides"
	as a consequence of norm resolvent convergence"
12.00 - 12.20	Jakub Železný (Řež)
	"Formula for a general metric operator and
	for the C operator in a simple PT-symmetric model"
12.25 - 12.45	Radek Novák (Prague)
	"The Pauli equation with non-Hermitian
	PT-symmetric boundary conditions"
12.50 - 14.00	LUNCH

Analytic and algebraic methods in physics VII (the second day, ctd.)

12.50 - 14.00	LUNCH
session V	VII. (quantum physics) chair: R. Hudson
14.00 - 14.35	Paulo Goncalves de Assis (Canterbury)
	"PT-symmetry and integrable models"
14.40 - 15.15	Vít Jakubský (Řež)
	"Klein tunneling and supersymmetry in graphene"
15.20 - 15.55	Jiří Lipovský (Řež)
	"Resonance asymptotics for quantum graphs
	in magnetic field"
16.00 - 16.30	coffee break
	coffee break TIII. (analytic methods) chair: B. Shapiro
session V	TIII. (analytic methods) chair: B. Shapiro
session V 16.30 - 17.05	TIII. (analytic methods) chair: B. Shapiro Ray Rivers (London)
session V 16.30 - 17.05	TIII. (analytic methods) chair: B. Shapiro Ray Rivers (London) "Path integrals for classical and quantum physics"
session V 16.30 - 17.05	TIII. (analytic methods) chair: B. Shapiro Ray Rivers (London) "Path integrals for classical and quantum physics" Per Alexandersson (Stockholm)
session V 16.30 - 17.05	TIII. (analytic methods) chair: B. Shapiro Ray Rivers (London) "Path integrals for classical and quantum physics" Per Alexandersson (Stockholm) "On Eigenvalues of the Schroedinger operator