

Workshop, June 14 - 16, 2004
LIST OF LECTURES

June 14: Monday afternoon

chairperson	speaker
time	lecture
13.00	Opening of the conference
chairman: C. M. Bender	
13.00 - 13.55	Michael Berry (Bristol University) Physics of nonhermitian degeneracies
14.00 - 14.35	Roman Kotecký (CTS Prague) Phase transitions in complex plane: zeros of partition functions
14.40 - 15.10	Hendrik B Geyer (Universiteit van Stellenbosch) Quasi-hermiticity and the role of a metric in some boson Hamiltonians
15.15 - 15.40	COFFEE BREAK
chairman: H. F. Jones	
15.40 - 16.20	Bijan K. Bagchi (Calcutta University) Effective mass Schrodinger equation and generation of solvable potentials
16.25 - 17.00	Géza Lévai (Inst. Nucl. Res. in Debrecen) Symmetries without Hermiticity
17.05 - 17.25	Vít Jakubský (NPI Řež) \mathcal{PT} -symmetry and its spontaneous breakdown on a circular domain
17.30 - 17.55	David Krejčířík (Instituto Superior Tecnico, Lisboa and NPI Řež) Instability results for the damped wave equation in unbounded domains

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June 15: Tuesday morning

chairperson	speaker
time	lecture
chairman: M. Berry	
9.00 - 9.55	Ali Mostafazadeh (Koç University, Istanbul) Pseudo-Hermitian Quantum Mechanics: Foundations and Applications
10.00 - 10.30	Miloslav Znojil (NPI Řež) Energy-dependent Hamiltonians and quasi-Hermiticity
10.35 - 11.00	COFFEE BREAK
chairman: D. Heiss	
11.00 - 11.55	Carl M. Bender (Washington University) Calculating the C operator in PT-symmetric quantum mechanics
12.00 - 12.30	Hugh F. Jones (Imperial College) Calculating the C operator in PT-symmetric quantum field theory
12.35 - 14.00	LUNCH

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June 15: Tuesday afternoon

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time	lecture
chairwoman: Ch. Tretter	
14.00 - 14.55	Frieder Kleefeld (CFIF, Instituto Superior Tecnico, Lisboa) Non-Hermitian Quantum Theory and its Holomorphic Representation: Introduction and Applications
15.00 - 15.25	Giuseppe Scolarici (Lecce University) Quasianti-Hermiticity and quaternionic quantum systems
15.30 - 15.50	Izak Snyman (Universiteit van Stellenbosch) Concerning Non-Hermitian Boson-Fermion Mappings and Superconductivity
15.55 - 16.20	COFFEE BREAK
chairman: B. Bagchi	
16.20 - 16.45	Heinz Langer (TU Vienna) Krein space methods for abstract Klein-Gordon operators
16.50 - 17.20	Christiane Tretter (University of Bremen) Spectral properties of Dirac operators with potential
17.25 - 17.55	ROUND TABLE DISCUSSION

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June 16: Wednesday morning

chairperson	speaker
time	lecture
chairwoman: E. Caliceti	
9.00 - 9.55	W. Dieter Heiss (Universiteit van Stellenbosch) Exceptional Points – their Universal Occurrence and their Physical Significance
10.00 - 10.45	Uwe Günther (Research Center Rossendorf) The MHD alpha-dynamo: operator pencil, pseudo-Hermiticity, level crossings, spectral phase transitions
10.50 - 11.15	COFFEE BREAK
chairman: H. Geyer	
11.15 - 11.55	Petr Navrátil (Lawrence Livermore National Laboratory) Non-hermitian and hermitian effective interactions and nuclear structure from first principles
12.00 - 12.30	Stefan Weigert (University of Hull) A Non-Hermitian PT-symmetric Quantum System Without Complex Potential
12.35 - 14.00	LUNCH

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June 16: Wednesday afternoon

chairperson	speaker
time	lecture
chairman: t. b. a.	
14.00 - 14.50	Zafar Ahmed (Bhabha Atomic Research Centre, Mumbai) Pseudo-unitary symmetry and random matrix ensembles
14.55 - 15.30	Emanuela Caliceti (University of Bologna) A class of \mathcal{PT} -symmetric operators with real spectrum.
15.35 - 16.00	COFFEE BREAK
chairman: A. Mostafazadeh	
16.00 - 16.20	Hynek Bíla (NPI Řež) $1/L$ expansions and \mathcal{PT} -symmetry
16.25 - 16.55	Juraj Boháčik (Inst. of Phys. Slovak Academy of Sci.) Triviality in Independent Value Model
17.00	Closing of the conference
17.00 - 17.55	Informal farewell cup of tea