

MECCANICA

A conference in honor of Sandro Graffi on his 65th birthday

Wednesday, August 27, 2008

09.00 - 09.30

*Opening Session: P. U. Calzolari (Rector, Università di Bologna),
G. Dore (Director, Dept. of Mathematics, Università di Bologna),
T. Ruggeri (Director, Gruppo Nazionale di Fisica Matematica)*

09.30 - 10.20

K. Yajima (Gakushuin University, Tokyo, Japan)
"On the fundamental solution for Schrödinger equations"

10.30 - 11.00

Coffee break

11.00 - 11.50

F. Calogero (Sapienza Università di Roma, Italy)
"Isochronous systems are not rare"

12.00 - 12.50

T. Paul (Ecole Normale Supérieure, Paris, France)
"Long time semiclassical evolution"

13.00 - 15.00

Lunch

15.00 - 15.50

F. Cannata (INFN, Bologna, Italy)
"Scattering in PT-symmetric Quantum Mechanics"

16.00 - 16.30

Coffee break

16.30 - 17.20

J.-M. Combes (Université du Sud, Toulon-Var, France)
"Eigenvalue statistics for random Schrödinger operators"

21.00 - 22.00

*Roundtable (in Italian): "Prospettive per la Fisica Matematica in Italia".
Panelists: N. Bellomo, M. Pulvirenti, S. Rionero, T. Ruggeri*

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Thursday, August 28, 2008

09.30 - 10.20

M. Pulvirenti (Sapienza Università di Roma, Italy)

"Mean-Field limit and semiclassical expansion for an N -particle quantum system"

10.30 - 11.00

Coffee break

11.00 - 11.50

H. Silverstone (Johns Hopkins University, Baltimore, USA)

"Rereading Langer's influential 1937 JWKB paper: the unnecessary Langer transformation; the ambiguous \hbar ; and the power of Borel summation"

12.00 - 12.50

I. Guarneri (Università dell'Insubria, Italy)

"Aspects of kicked quantum dynamics"

13.00 - 15.00

Lunch

15.00 - 15.50

G. Turchetti (Università di Bologna, Italy)

"Theory and simulations for weakly chaotic systems: round off and irreversibility, collisions and relaxation"

16.00 - 16.30

Coffee break

16.30 - 17.20

S. Isola (Università di Camerino, Italy)

"Orderings of the rationals: dynamical systems and statistical mechanics"

17.30 - 18.20

A. Voros (CEA-CENS, Saclay, France)

"Toward a quantum-integrable structure of the general 1D Schrödinger equation"

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Friday, August 29, 2008

09.30 - 10.20

G. Jona-Lasinio (Sapienza Università di Roma, Italy)

"Long range correlations in diffusive systems"

10.30 - 11.00

Coffee break

11.00 - 11.50

F. Guerra (Sapienza Università di Roma, Italy)

"Structure and properties of the Generalized Random Energy Model"

12.00 - 12.50

G. Parisi (Sapienza Università di Roma, Italy)

"On the most compact regular lattices in large dimensions"

13.00 - 15.00

Lunch

15.00 - 15.50

C. Giardinà (Technische Universiteit, Eindhoven, The Netherlands)

"Duality and hidden symmetries in transport models"

16.00 - 16.30

Coffee break

16.30 - 17.20

J. Lebowitz (Rutgers University, New Brunswick, USA)

"Exact results for ionization of model atomic systems"

17.30 - 18.00

Human Rights Session, chaired by J. Lebowitz

20.30 -

Social Banquet at Grand Hotel Baglioni (Via Indipendenza 8, Bologna)

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Saturday, August 30, 2008

09.30 - 10.20

J. Bellissard (Georgia Institute of Technology, USA)

"The topology of tiling spaces"

10.30 - 11.00

Coffee break

11.00 - 11.50

C. Viterbo (Ecole Polytechnique, France)

"Symplectic homogenization"

12.00 - 12.50

J. Fröhlich (ETH Zurich, Switzerland)

"Quantum Brownian Motion, Quantum Friction and decoherence"