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Warwick Mathematics Research Centre

2004/05 Warwick EPSRC Symposium on

The Mathematics of Quantum Systems

Random Matrices and Random Schrödinger Operators

11-12 April 2005

Organisers: G Friesecke (Warwick) & J Keating (Bristol)

PROGRAMME

Venue: All talks wil be in Lecture Room B1.01 of the Mathematics Institute

Monday 11th April 2005

9:30-10:25	**J Keating** (Bristol) ***An overview of some applications of random matrix theory in quantum mechanics***
	Coffee served in Common Room
11:00-11:55	**E Kanzieper** (Weizmann) ***Ginibre's Real Random Matrices: 40 Years Later***
	Lunch break
13:30-14:25	**S Jitomirskaya** (Irvine) ***The Ten Martini problem***
14:30-15:25	**N Ueki** (Kyoto) ***Wegner estimates and localization for random Dirac operators***
	Tea served in Common Room
16:15-17:10	**F Mezzadri** (Bristol) ***Random Matrix Theory and Entanglement in Quantum Spin Chains***
17:15-18:10	**E Bogomolny** (Orsay) ***Spectral statistics of a pseudo-integrable map***
18:30	*Wine reception / buffet dinner in Common Room*

Tuesday 12th April 2005

9:30-10:25	**L Pastur** (Paris 7) ***Limiting laws for linear eigenvalue statistics of random matrices***
	Coffee served in Common Room
11:00-11:55	**F Klopp** (Paris-Nord) ***Resonant tunneling, level repulsion and spectral type for adiabatic quasi-periodic Schrödinger operators*** (joint work with A. Fedotov)
	Lunch break
13:30-14:25	**I Smolyarenko** (Brunel) ***Zeros of Dirichlet L-functions and parametric RMT***
14:30-15:25	**E Strahov** (Caltech) ***Giambelli compatible point processes***
	Tea served in Common Room
16:00-16:55	**Y Fyodorov** (Brunel) ***Spontaneous vs. Induced Breakdown of S-matrix Unitarity in Disordered Systems***

Symposium Scientific Committee:

E. Brian Davies (King's College London)
W. Des Evans (Cardiff)
Yan Fyodorov (Brunel)
Eric Séré (Paris IX)
Robert S. MacKay (Warwick)
Laszlo Erdös (Georgia Tech/University of Munich)
Gero Friesecke (Warwick)
Jon Keating (Bristol)
Herbert Spohn (Technical University Munich)
Peter R. Taylor (Dept.of Chemistry and Centre for Scientific Computing, Warwick)

For further information contact:

Room B1.37,Mathematics Research Centre, University of Warwick, Coventry CV4 7AL - UK
Website: http://www.maths.warwick.ac.uk/research/2004_2005/symposium/index.html
Email: mrc@maths.warwick.ac.uk
Phone: +44 (0)24 7652 8317
Fax: +44 (0)24 7652 4182

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