Program BRUNEL Workshop on Random Matrix Theory

Halsbury Building (Graduate School) PH 055, Uxbridge Campus

Friday 4 November:

09:40 - 10:00		registration
10:00 - 11:00	Martin Sieber	Semiclassical Approach to Universality in Quantum Chaos
11:00 - 11:30		coffee break
11:30 - 12:30	Steve Simon	Unexpected Physics of Wireless Communication : Replicas, Diffusons, and Supersymmetry for Fun and Profit
12:30 - 14:00		lunch break
14:00 - 14:35	Jon Keating	Random matrix theory and entanglement in quantum spin chain
14:35 - 15:10	Ben Simons	Instantons and geodesics on σ -manifolds: roads to localisation
15:10 - 15:30		coffee break
15:30 - 16:30	Thomas Guhr	Measuring and Removing Noise in Financial Correlations
16:30 - 16:50		coffee break
16:50 - 17:25	Ilia Krasikov	Sharp nonasymptotic bounds on orthogonal polynomials
17:25 - 18:00	Boris Khoruzhenko	Moments of spectral determinants of complex random matrices
18:00 - 19:00	Poster session & wine	
20:00	dinner	PizzaExpress, 222 High St, Uxbridge, tel. 01895 251222

Saturday 5 November:

10:00 - 11:00	Herbert Spohn	Two links between RMT and statistical physics
11:00 - 11:30		coffee break
11:30 - 12:05	Francesco Mezzadri	Random polynomials, random matrices, and L -functions
12:05 - 12:40	Eugene Kanzieper	Integrable structure of Ginibre's ensemble of real random matrices and statistics of real eigenvalues
12:40 - 13:55		lunch break
13:55 - 14:30	Tilo Wettig	Color-flavor transformation and application to lattice QCD
14:30 - 15:05	Nina Snaith	Averages of ratios of characteristic polynomials for the compact classical groups
15:05 - 15:40	Gregor Tanner	Spectral statistics for 'regular quantum graphs'
15:40 - 16:00		coffee break
16:00 - 16:35	Oriol Bohigas	On a new family of random matrices
16:35 - 17:10	Yan Fyodorov	On Hubbard-Stratonovich Transformations over Hyperbolic Domains

Poster Presentations:

Francesco Basile	Characteristic polynomials in non-Hermitian symplectic ensembles
Güler Ergün	Spectral Properties of Random Matrices and Applications to Biological Systems
Dmitry Gangardt	Off-diagonal correlations of 1D impenetrable bosons: RMT and replica trick
Heiner Kohler	Fidelity decay of random matrix ensembles