

Program BRUNEL Workshop on Random Matrix Theory

Halsbury Building Graduate School PH Uxbridge Campus

Friday 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, Dimensions, 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	Ilya 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 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
- Görel Ergün Spectral Properties of Random Matrices and Applications to Biological Systems
- Dmitry Gangardt O -diagonal correlations of 1D impenetrable bosons: RMT and replica trick
- Heiner Kohler Fidelity decay of random matrix ensembles