

Program III BRUNEL Workshop on Random Matrix Theory

Halsbury Building (Graduate School) PH 055, Uxbridge Campus

Monday 17 December:

09:20 – 10:00		registration
10:00 – 11:00	Leonid A. Pastur	<i>On the universality of local regime of hermitian matrix models</i>
11:00 – 11:30		coffee break
11:30 – 12:05	Arno Kuijlaars	<i>Non-intersecting squared Bessel paths</i>
12:05 – 13:05	Martin Zirnbauer	<i>Superbosonization</i>
13:05 – 15:00		lunch break
15:00 – 16:00	Vladimir Kazakov	<i>Matrices, characters, quantum spin (super)chains</i>
16:00 – 16:35	Francesco Mezzadri	<i>Entanglement entropy in quantum spin chains with finite range interaction</i>
16:35 – 17:00		coffee break
17:00 – 17:35	Thomas Guhr	<i>Arbitrary unitarily invariant random matrix ensembles and supersymmetry</i>
17:35 – 18:10	Gregory Schehr	<i>Distribution of real roots of random polynomials</i>
18:10 – 19:30	Poster session	
20:00	dinner	

Tuesday 18 December:

09:30 – 10:30	Jon Keating	<i>Applications of RMT to Number Theory</i>
10:30 – 11:05	Eugene Strahov	<i>Correlation kernels for orthogonal and symplectic discrete ensembles</i>
11:05 – 11:35		coffee break
11:35 – 12:35	Alexander Its	<i>The Riemann-Hilbert method: A Status Report</i>
12:35 – 13:10	Tom Claeys	<i>The birth of a cut in unitary random matrix ensembles</i>
13:10 – 14:45		lunch break
14:45 – 15:20	Oriol Bohigas	<i>Random matrices and extreme value statistics: some examples</i>
15:20 – 15:55	Vladimir Osipov	<i>Non-perturbative Theory of Large Spectral Deviation in GUE</i>
15:55 – 16:30	David Dean	<i>Large deviations of extreme eigenvalues of random matrices</i>
16:30		coffee

Poster Presentations:

- Francesco Basile *A theorem mapping chiral RMT to low energy QCD through superbosonisation*
- Paulo Goncalves-De-Assis *Recent Developments in Pseudo-Hermitian Hamiltonians*
- Christoph Lehner *Supersymmetric character expansion techniques applied to supergroup integrals*
- Leonid Shifrin *Individual complex Dirac eigenvalue distributions from random matrix theory and lattice QCD at nonzero chemical potential*
- Pierpaolo Vivo *RMT analysis of smallest eigenvalue distributions of financial covariance matrices*