

# VI BRUNEL Workshop on Random Matrix Theory

Lecture Centre, Room LC068

## Friday 17. December 2010:

08:45–09:30		REGISTRATION	room LC004/6
09:30–10:10	Bertrand Eynard	<i>Random matrices and Geometry</i>	
10:10–10:50	François David	<i>A simple and general random matrix model for spin decoherence</i>	
10:50–11:20		COFFEE BREAK	
11:20–12:00	Hans Weidenmüller	<i>Chaos in Fermionic many-body systems and the metal-insulator transition</i>	
12:00–12:40	Sergej Skipetrov	<i>Euclidean random matrices for waves in random media</i>	
12:40–14:30		LUNCH BREAK	
14:30–15:10	Eugène Bogomolny	<i>Perturbation approach to fractal dimensions for certain critical random matrix ensembles</i>	
15:10–15:50	Alexander Ossipov	<i>Universal and non-universal features of critical multifractal wave functions</i>	
15:50–16:20		COFFEE BREAK	
16:20–17:00	Yang Chen	<i>Perturbed Hankel determinants with applications to the information theory of wireless communications</i>	
17:00–19:00		POSTER SESSION & RECEPTION	room LC004/6
19:30	DINNER	<i>Auberge, 223 High St, Uxbridge, tel. 01895 270111</i>	

## Saturday 18. December 2010:

09:20–10:00	Jean-Philippe Bouchaud	<i>Stochastic dynamics of eigenvectors, with financial applications</i>	
10:00–10:40	Isaac Pérez Castillo	<i>Large deviations of the smallest eigenvalue of the Wishart-Laguerre ensemble</i>	
10:40–11:10		COFFEE BREAK	
11:10–11:50	Maurice Duits	<i>Universality in the two matrix model with one quartic potential</i>	
11:50–12:30	Man Yu Mo	<i>The rank 1 real Wishart spiked model</i>	
12:30–14:00		LUNCH BREAK	
14:00–14:40	Sebastian Müller	<i>Semiclassical theory of spectral statistics: <math>n</math>-point correlation functions</i>	
14:40–15:20	Jack Kuipers	<i>Transport moments beyond the leading order</i>	
15:20–15:50		COFFEE BREAK	
15:50–16:30	Benjamin Béri	<i>Superconducting RMT ensembles: recent progress and applications</i>	
16:30–17:10	Fernando Metz	<i>The cavity approach to the localization transition in random matrices</i>	

**Poster Presentations:**

room LC004/6

Max Atkin            *The dimensions of a quantum universe: Is there less room at the bottom?*

Lorna Brightmore    *Computing an average over the CUE*

Klaas Deschout      *Double scaling limit for modified Jacobi-Angelesco polynomials*

Hanya Ben Hamdin   *Wave energy transport in multi-component systems*

Dries Geudens        *New critical behavior in the Hermitian two-matrix model*

Arthur Goetschy     *Eigenvalue distribution of large non-Hermitian Euclidean random matrices*

Jonit Fischmann     *The real and complex induced Ginibre ensemble*

Reimer Kühn         *Spectra of modular and small-world matrices*

Céline Nadal         *Maximal eigenvalue of a Gaussian random matrix*

Michael Phillips     *The real asymmetric Wishart-Laguerre ensemble and applications to QCD*

Nick Simm            *Exact results and asymptotics for moments of eigenvalues in chaotic cavities*

Pierpaolo Vivo       *Statistical properties of random pure states in bipartite systems*