

## VIII Brunel–Bielefeld Workshop on Random Matrix Theory

**Brunel University, Lecture Centre, Room LC068**

Organisers: G. Akemann (Bielefeld), I. Krasovsky (Imperial), D. Savin and I. Smolyarenko (Brunel)

### Friday, 14 December 2012:

08:45 – 09:30		REGISTRATION	room LC004/6
09:30 – 10:10	Neil O’Connell	<i>Raising the temperature in random matrix theory</i>	
10:10 – 10:50	Fritz Haake	<i>Quantum chaotic equilibration without dissipation</i>	
10:50 – 11:20		COFFEE BREAK	
11:20 – 12:00	Simon Ruijsenaars	<i>Calogero-Moser systems: A crossroads in mathematics and physics</i>	
12:00 – 12:40	Satya Majumdar	<i>Vicious walkers, random matrices and 2-d Yang-Mills theory</i>	
12:40 – 14:30		LUNCH BREAK	
14:30 – 15:10	Max Atkin	<i>Higher order analogues of the Tracy-Widom distribution and integrable hierarchies</i>	
15:10 – 15:50	Celine Nadal	<i>Number of minima of a random landscape and the Tracy-Widom distribution</i>	
15:50 – 16:20		COFFEE BREAK	
16:20 – 17:00	Yan Fyodorov	<i>Fluctuations and extreme values in multifractal patterns</i>	
17:00 – 19:00		POSTER SESSION & RECEPTION	room LC004/6
19:30	DINNER	<i>Zizzi, 223 High St, Uxbridge, tel. 01895 233100</i>	

### Saturday, 15 December 2012:

09:20 – 10:00	Mario Kieburg	<i>Applications of random matrix theory in lattice QCD</i>	
10:00 – 10:40	Zdzisław Burda	<i>Spectral correlations for products of independent Ginibre matrices</i>	
10:40 – 11:10		COFFEE BREAK	
11:10 – 11:50	Alexander Ossipov	<i>Anderson localisation on a simplex</i>	
11:50 – 12:30	Pierpaolo Vivo	<i>Invariant Beta-Wishart ensembles and crossover densities</i>	
12:30 – 14:00		LUNCH BREAK	
14:00 – 14:40	Nina Snaith	<i>Random matrix theory and elliptic curves</i>	
14:40 – 15:20	Stefan Zohren	<i>Matrix models in causal dynamical triangulations</i>	
15:20 – 15:50		COFFEE BREAK	
15:50 – 16:30	Tom Claeys	<i>Random matrices with equi-spaced external source</i>	

**Poster Presentations:**

room LC004/6

Romain Allez	<i>Invariant beta ensembles and the Gauss Wigner crossover</i>
Lorna Brightmore	<i>Painleve III and a matrix model with singular weight</i>
Milan Cikovic	<i>Universality in fixed trace Ginibre ensembles</i>
Georgios Giasemidis	<i>Chern-Simon matrix model and applications on 5D SYM theory</i>
Martin Hallnas	<i>Joint eigenfunctions for the relativistic Calogero-Moser Hamiltonians of hyperbolic type</i>
Jesper Ipsen	<i>Products of independent <math>\beta=4</math> Ginibre matrices and their spectral correlation functions</i>
Anna Maltsev	<i>At the hard edge of random covariance matrices</i>
Luca Molinari	<i>Identities and exponential bounds for transfer matrices</i>
Sebastian Müller	<i>GSE statistics without spin</i>
Benjamin Niedner	<i>Seiberg-Shih relations in matrix models</i>
Marcel Novaes	<i>Semiclassical approach to spectral statistics</i>
Reimer Kühn	<i>Spectra of sample covariance matrices for multiple time-series</i>
Artur Świąch	<i>Self-averaging and spectral commutativity of isotropic random matrices</i>
Huw Wells	<i>Random matrix theory and spin chains</i>