V BRUNEL Workshop on Random Matrix Theory

Halsbury Building (Graduate School) Room PH 055

Friday 18. December:

09:15 – 09:45		registration
09:45 – 10:30	Alex Altland	*Field theory of dynamical localisation in the quantum kicked rotor*
10:30 – 11:15	Mario Kieburg	*Supersymmetry without supersymmetry: a new approach to derive determinatal and Pfaffian structures*
11:15 – 11:45		coffee break
11:45 – 12:30	Arno Kuijlaars	*Asymptotic analysis of recurrence relations in certain random matrix models*
12:30 – 14:15		lunch break
14:15 – 15:00	Fabio Franchini	*Horizon in RMT, Hawking radiation and flow of cold atoms*
15:00 – 15:45	Oriol Bohigas	*Random-matrix approach to RPA equations*
15:45 – 16:15		coffee break
16:15 – 17:00	Henning Schomerus	*Fractal Weyl laws – beyond ballistic chaotic decay*
17:00 – 17:45	Oleg Yevtushenko	*Critical scaling in random matrices with fractal eigenstates*
17:45 – 19:30	POSTER SESSION	
20:00	DINNER	*Auberge, 223 High St, Uxbridge, tel. 01895 270111*

Saturday 19. December:

09:30 – 10:15	Benjamin Schlein	*Bulk universality for Wigner matrices*
10:15 – 11:00	Tom Claeys	*Critical asymptotics for Toeplitz determinants*
11:00 – 11:30		coffee break
11:30 – 12:15	Yan Fyodorov	*Extreme value statistics of 1/f noises generated by 2D Gaussian free fields: Statistical mechanics approach*
12:15 – 13:00	Sven Gnutzmann	*The nonlinear Schrödinger equation on quantum graphs*
13:00 – 14:30		lunch break
14:30 – 15:15	Zdzisław Burda	*Product of random Gaussian matrices*
15:15 – 15:45		coffee break
15:45 – 16:30	Francesco Mezzadri	*On the rate of convergence of linear functions of matrix elements of random unitary matrices*
16:30 – 17:15	Boris Khoruzhenko	*Truncations of random unitary matrices revisited*

Poster Presentations:

Gaetan Borot	*The topological recursion and the O(n) matrix model*
Andrzej Jarosz	*Applications of free random variables to financial analysis*
Dmitrii Maksimov	*Random waves in elastic medium*
Rodrigo Megaides	*Spectral statistics on the complete Neumann graph: symmetries and universality*
Celine Nadal	*Bipartite entanglement for random pure states and Wishart random matrices*
Leonardo Pachón	*Time-domain scars: Resolving the spectral form factor in phase space*
Michael Phillips	*The chiral Gaussian two-matrix ensemble of real asymmetric matrices*
Sean O'Rourke	*Gaussian fluctuations of eigenvalues in Wigner random matrices*
Joachim Rambeau	*Statistics of the maximal value for non-intersecting Brownian paths*
Tim Rogers	*Universal sum and product rules for random matrices*
Nick Simm	*Quantum transport and gap formation in RMT: Shot noise and conductance*
Suren Sorathia	*Interplay between coupling to the continuum and internal chaos: Fluctuations and correlations*
Navinder Singh	*Eigenvalue statistics and its asymptotic analysis for non-Hermitian Wishart random matrices*
Pierpaolo Vivo	*How many eigenvalues of a Gaussian matrix are positive?*