

Program II BRUNEL Workshop on Random Matrix Theory

Halsbury Building (Graduate School) PH 055, Uxbridge Campus

Monday 18 December:

09:40 – 10:00		registration
10:00 – 11:00	Philippe Di Francesco	<i>The combinatorics behind matrix models and beyond</i>
11:00 – 11:30		coffee break
11:30 – 12:30	Yan Fyodorov	<i>Single-channel scattering as a sensitive probe of the Anderson localization</i>
12:30 – 13:05	Boris Khoruzhenko	<i>Colour-Flavour Transformations, truncations of random unitary matrices and Selberg-type integrals</i>
13:05 – 15:00		lunch break
15:00 – 16:00	Jac Verbaarschot	<i>Random Signs, Complex Eigenvalues and QCD</i>
16:00 – 16:35	Alexander Ossipov	<i>T-duality in super-symmetric theory of disordered quantum systems</i>
16:35 – 17:00		coffee break
17:00 – 17:35	Oleg Yevtushenko	<i>Supersymmetry Approach to Almost Diagonal Random Matrices</i>
17:35 – 18:10	Eugene Kanzieper	<i>Are Bosonic Replicas Faulty?</i>
18:10 – 19:30		Poster session
20:00		dinner

Tuesday 19 December:

09:30 – 10:05	Dimitri Gangardt	<i>Impenetrable bosons in 1D and RMT</i>
10:05 – 10:40	Hans-Jürgen Sommers	<i>Random matrix theory for Bosons</i>
10:40 – 11:10		coffee break
11:10 – 12:10	Alexander Altland	<i>Universality in quantum chaos: the field theory perspective</i>
12:10 – 12:45	Sebastian Müller	<i>Periodic-Orbit Theory of Level Correlations</i>
12:45 – 14:30		lunch break
14:30 – 15:30	Jon Keating	<i>Semiclassical Resonance Eigenfunctions</i>
15:30 – 16:00		coffee break
16:00 – 16:35	Dmitry Savin	<i>Shot noise in chaotic cavities and Selberg's integral</i>
16:35 – 17:10	Sven Gnutzmann	<i>Universal spectral statistics in individual quantum graphs</i>

Poster Presentations:

Güler Ergün & Reimer Kühn

Spectrum of coupled random matrices: semicircle to triangular distribution via replicas

Shoichi Kawamoto

Noncompact surface in dynamical triangulation

Vladimir Ossipov

Integrable Theory of RMT Average Characteristic Polynomials

Leonid Shifrin & Gernot Akemann

Gap probabilities and eigenvalue distributions in the complex plane

Yi Wei

Leutwyler-Smilga integral and color-flavour transformations over super-unitary groups