

# IX Brunel–Bielefeld Workshop on Random Matrix Theory

Center for Interdisciplinary Research – ZiF, Bielefeld University

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

## Tuesday 17. December 2013:

16:00 – 18:00 REGISTRATION ZiF Hall 1st floor  
17:00 onwards POSTER SESSION followed by RECEPTION & BUFFET (from 18:00)

## Wednesday 18. December 2013:

09:30 – 10:15 Jon Keating *RMT and Quantum Spin Chains*  
10:15 – 11:00 Vladimir Kravtsov *Eigenfunction Statistics on the Bethe Lattice*  
11:00 – 11:30 COFFEE BREAK  
11:30 – 12:15 Alexander Soshnikov *On CLT results for linear statistics of the eigenvalues in random matrices*  
12:15 – 13:00 Maurice Duits *On mesoscopic equilibrium for linear statistics in Dyson's Brownian Motion*  
13:00 – 15:00 LUNCH BREAK  
15:00 – 15:45 Florent Benaych-Georges *Central limit theorem for heavy tailed random matrices*  
15:45 – 16:30 Patrik Ferrari *Perturbed GUE Minor Process and Warren's Process with Drifts*  
16:30 – 17:00 COFFEE BREAK  
17:00 – 17:45 Pedro Vidal *Quantum transport in chaotic cavities with non-ideal leads for the  $\beta = 1, 2$  and 4 symmetry classes*  
17:45 – 18:30 Christophe Texier *Wigner time-delay distribution in chaotic cavities and freezing transition*  
20:00 onwards CONFERENCE DINNER Sparrenburg

## Thursday 19. December 2013:

09:30 – 10:15 Leonid Pastur *On random matrices which include tensor products*  
10:15 – 11:00 Neil O'Connell *Geometric RSK and Whittaker functions*  
11:00 – 11:30 COFFEE BREAK  
11:30 – 12:15 Mireille Capitaine *Exact separation phenomenon for the eigenvalues of large Information-Plus-Noise type matrices - Application to spiked models*  
12:15 – 13:00 Martin Venker *Repulsive Particle Systems and Random Matrices*  
13:00 – 14:30 LUNCH BREAK  
14:30 – 15:15 Santosh Kumar *Distribution of Scattering Matrix Elements in Quantum Chaotic Scattering*  
15:15 – 15:45 COFFEE BREAK  
15:45 – 16:30 Oleg Zaboronski *Interacting particle systems and the real Ginibre ensemble*  
16:30 – 17:15 Arno Kuijlaars *Singular Values of Products of Random Matrices*

## Poster Presentations:

Yasar Atas	<i>Ratio of level spacings in random matrix ensembles</i>
Mohamed Jalel Atia	<i>Simplification of Christoffel - Darboux formula in some case of Jacobi polynomials</i>
Barnaby Garrod	<i>Pfaffian Point Processes</i>
Joanna Hutchinson	<i>RMT and Universality of Phase Transitions in Classical Spin Systems</i>
Jesper Ipsen	<i>Singular Values of Products of Various Random Matrices</i>
Rostyslav Kozhan	<i>Truncations of random unitary matrices and universality-type result for subunitary operators</i>
Irfan Mahmood	<i>Lax pair representation and Darboux transformation for noncommutative Painlevé II equation</i>
Anna Maltsev	<i>Fluctuations in the Wigner ensemble</i>
Rupert Small	<i>Particle Maps and k-Body RMT Statistics</i>
Mihail Poplavskiy	<i>Universality in the bulk and at the edge for Unitary Matrix Models</i>
Vladimir Osipov	<i>Universality in the spectrum of strongly opened quantum graphs</i>
Martin Venker	<i>Repulsive Particle Systems and Random Matrices</i>
Lu Wei	<i>On cumulants of trace of products of random matrices</i>
Tim Wirtz	<i>Universality of the Smallest Eigenvalue Distribution in the Correlated Wishart Model</i>
Zhong Zheng	<i>On the fluctuation of mutual information in double scattering MIMO channels</i>