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   *Ratio of level spacings in random matrix ensembles*

Mohamed Jalel Atia   *Simplification of Christoffel - Darboux formula in some case of Jacobi polynomials*

Barnaby Garrod   *Pfaffian Point Processes*

Joanna Hutchinson   *RMT and Universality of Phase Transitions in Classical Spin Systems*

Jesper Ipsen   *Singular Values of Products of Various Random Matrices*

Rostyslav Kozhan   *Truncations of random unitary matrices and universality-type result for subunitary operators*

Iirfan Mahmood   *Lax pair representation and Darboux transformation for noncommutative Painlevé II equation*

Anna Maltsev   *Fluctuations in the Wigner ensemble*

Rupert Small   *Particle Maps and k-Body RMT Statistics*

Mihail Poplavskyi   *Universality in the bulk and at the edge for Unitary Matrix Models*

Vladimir Osipov   *Universality in the spectrum of strongly opened quantum graphs*

Martin Venker   *Repulsive Particle Systems and Random Matrices*

Lu Wei   *On cumulants of trace of products of random matrices*

Tim Wirtz   *Universality of the Smallest Eigenvalue Distribution in the Correlated Wishart Model*

Zhong Zheng   *On the fluctuation of mutual information in double scattering MIMO channels*