

XV Brunel–Bielefeld Workshop on Random Matrix Theory

Center for Interdisciplinary Research – ZiF, Bielefeld University

Organisers: G. Akemann (Bielefeld), I. Krasovsky, D. Savin, I. Smolyarenko (London)

Thursday 05. December 2019:

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

Friday 06. December 2019:

09:30 – 10:15 Ofer Zeitouni *On perturbations of non-normal matrices by weak noise: limiting spectrum and outliers*
 10:15 – 11:00 Aron Wennman *On the hole event for Gaussian entire functions and emergent quadrature domains*
 11:00 – 11:30 COFFEE BREAK
 11:30 – 12:15 Tomaž Prosen *Exact random matrix spectral form factor in kicked Ising spin chain*
 12:15 – 13:00 Giovanni Cicuta *Sparse random block matrices*
 13:00 – 15:00 LUNCH BREAK
 15:00 – 15:45 László Erdős *From Wigner-Dyson to Pearcey: universality at the cusp*
 15:45 – 16:30 Christophe Charlier *Large gap probability at the hard edge of Muttalib-Borodin ensembles*
 16:30 – 17:00 COFFEE BREAK
 17:00 – 17:45 Alexander Ossipov *Non-invariant random matrices and Anderson localization*
 17:45 – 18:30 Aurélien Grabsch *Distribution of the Wigner-Smith time-delay matrix for chaotic cavities with absorption and coupled Coulomb gases*
 19:30 CONFERENCE DINNER at Rosenhof, Wiegandweg 49, 33619 Bielefeld

Saturday 07. December 2019:

09:30 – 10:15 Alexander Altland *Perspectives of random matrix theory in holography*
 10:15 – 11:00 Félix Izrailev *Onset of many-body chaos and thermalization in finite systems*
 11:00 – 11:30 COFFEE BREAK
 11:30 – 12:15 Margherita Disertori *Random matrices and history dependent stochastic processes*
 12:15 – 13:00 Thorsten Neuschel *Critical behavior of non-intersecting Brownian motions*
 13:00 – 14:30 LUNCH BREAK
 14:30 – 15:15 Joseph Najnudel *Gaussian multiplicative chaos and random matrix theory*
 15:15 – 16:00 Nina Snaith *Zeros, moments and determinants*
 16:00 COFFEE & DEPARTURE

Poster Presentations:

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| Emilia Alvarez | <i>Logarithmic moments of characteristic polynomials of random matrices in $O(N)$ and $USp(2N)$</i> |
| Tomas Berggren | <i>Domino tilings of the Aztec diamond with doubly periodic weightings</i> |
| Dan Betea | <i>From Gumbel to Tracy – Widom II: a finite temperature version of the Baik-Deift-Johansson theorem</i> |
| Wouter Buijsman | <i>Lower bound on the Thouless time for the form factor of energy spectra</i> |
| Philip Cohen | <i>Moments of discrete orthogonal polynomial ensembles</i> |
| Markus Ebke | <i>Mehler Formulas and Universality for Skew-Orthogonal Polynomials on the Complex Plane</i> |
| Michael Fleermann | <i>Sample Covariance Matrices with Curie-Weiss Entries</i> |
| Aravindh Kulanthaivelu | <i>Boundary Conditions and the q-state Potts Model on Random Planar Maps</i> |
| Alex Little | <i>Products of Truncated Orthogonal Matrices</i> |
| Serhii Lysychnkin | <i>Truncations of Random Unitary Symplectic Matrices</i> |
| Theo-Harris Maroudas | <i>Asymptotics of the Airy kernel determinant on a union of intervals</i> |
| Julian Mauersberger | <i>Large gap asymptotics for the Meijer-G point process</i> |
| Adam Mielke | <i>Non-Hermitian Random Matrix Distributions in Quantum Chaos and Birds</i> |
| Alexander Minakov | <i>Gap probabilities in random matrix ensembles</i> |
| Leslie Diëgo Molag | <i>The local universality of Muttalib-Borodin ensembles</i> |
| Roman Riser | <i>Eigenvalue distribution of strictly quasi-hermitian random matrices</i> |
| Vito Antonio Rocco Susca | <i>Top Eigenpair Statistics for Weighted Sparse Graphs</i> |
| Matthew Thompson | <i>Random Matrix Theory and Refined Large Deviations of the Riemann Zeta Function</i> |
| Khanh Duy Trinh | <i>On beta ensembles at high temperature regime</i> |
| Jani Virtanen | <i>Entanglement entropy of two disjoint intervals in an XX spin chain</i> |
| Tim Robert Würfel | <i>Large N asymptotics of correlation kernels in QCD-like random matrix models at non-zero temperature</i> |
| Meng Yang | <i>Ginibre Ensemble Perturbed by Finite Point Charges</i> |