



XI Brunel–Bielefeld Workshop on Random Matrix Theory

Center for Interdisciplinary Research – ZiF, Bielefeld University

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Thursday 10. December 2015:

16:00 –18:00 REGISTRATION ZiF Hall 1st floor
17:00 POSTER SESSION followed by RECEPTION & BUFFET (from 18:30 onwards)

Friday 11. December 2015:

09:30 –10:15 Satya Majumdar *Finite temperature free fermions, random matrix theory and the Kardar-Parisi-Zhang equation at finite time*
10:15 –11:00 Pavel Bleher *Six-vertex model with partial domain wall boundary conditions: Exact solution*
11:00 –11:30 COFFEE BREAK
11:30 –12:15 Antti Knowles *Local eigenvalue statistics for random regular graphs*
12:15 –13:00 Christopher Joyner *Spectral statistics of Bernoulli matrix ensembles - a random walk approach*
13:00 –15:00 LUNCH BREAK
15:00 –15:45 Martin Zirnbauer *A random-matrix perspective on disordered phonons*
15:45 –16:30 Christophe Texier *Interpolating between Laguerre and "inverse Laguerre" ensembles & Topological phase transitions in the 1D multichannel Dirac equation with random mass*
16:30 –17:00 COFFEE BREAK
17:00 –17:45 Nicholas Simm *Random matrix theory and log-correlated Gaussian fields*
17:45 –18:30 Grégory Schehr *Finite N corrections to the limiting distribution of the smallest eigenvalue of Wishart complex matrices*
20:00 CONFERENCE DINNER Sparrenburg , Am Sparrenberg, Bielefeld

Saturday 12. December 2015:

09:30 –10:15 Arno Kuijlaars *Persistence of singular behavior in unitary ensembles plus GUE*
10:15 –11:00 Eugene Strahov *Correlation functions for products of coupled random matrices*
11:00 –11:30 COFFEE BREAK
11:30 –12:15 Francesco Mezzadri *Global Fluctuations of Linear Statistics of beta Ensembles*
12:15 –13:00 Rostyslav Kozhan *Eigenvalue statistics for rank one perturbations of unitary and Hermitian beta-ensembles*
13:00 –14:30 LUNCH BREAK
14:30 –15:15 Henning Schomerus *Delay times in chiral ensembles-signatures of chaotic scattering from Majorana zero modes*
15:15 –15:45 COFFEE BREAK
15:45 –16:30 Maurice Duits *Fluctuations of linear statistics for determinantal processes through recurrence matrices*
16:30 –17:15 Tom Claeys *Gaussian perturbations of random matrices with a hard edge*

Poster Presentations:

Maram Akila	<i>Spectral statistics of nearly unidirectional quantum graphs</i>
James Gbenga Alaba	<i>Some Qualitative Properties of Certain Second Order Nonlinear Nonautonomous Differential Equations</i>
Steven Anlage	<i>An Application of Random Matrix Theory to Electromagnetic Compatibility</i>
Enrique Benito	<i>Localization length vs Level repulsion in a 1-D Driven disordered Quantum system</i>
Tomas Berggren	<i>Riemann-Hilbert approach to CLT's of linear statistics</i>
Vaios Blatzios	<i>Discrete symmetries in the Tenfold Way</i>
Joël Bun	<i>An Optimal Rotational Invariant Estimator for General Covariance Matrices</i>
Tomasz Checinski	<i>Spectral correlation functions of the sum of two independent complex Wishart matrices with unequal covariances</i>
Christophe Charlier	<i>On the gap probability of the smallest eigenvalue in the Laguerre Unitary Ensemble</i>
Ian Cooper	<i>Modelling elliptic curve L-functions with random matrices</i>
Fabio Deelan Cunden	<i>Correlators for the Wigner-Smith time-delay matrix of chaotic cavities</i>
Antoine Doeraene	<i>Gaussian perturbation of random matrices</i>
Jacek Grela	<i>Spectral density in complex doubly correlated matrix model with an external source</i>
Reimer Kühn	<i>Rare Event Statistics of Random Walks on Networks: Localization and Other Dynamical Phase Transitions</i>
Tomasz Maciazek	<i>The probability distribution of spectral moments for the Gaussian beta-Ensembles</i>
Steve Mudute-Ndumbe	<i>A new type of PT-symmetric random matrix ensembles</i>
Mihail Poplavskiy	<i>On asymptotic behavior of pure complex spectrum probability for the real Ginibre matrix</i>
Alexi Reynolds	<i>Moments of the eigenvalue densities and of the secular coefficients of beta-ensembles</i>

Roman Riser	<i>Power spectrum analysis in quantum chaology and its relation to Toeplitz determinants</i>
Deividas Sabonis	<i>Random Matrix Theory for Majorana Fermions</i>
Guilherme Silva	<i>The mother body phase transition in the normal matrix model</i>
Gries Stivigny Manuela Girotti	<i>Smallest singular value distribution and large gap asymptotics or products of random matrices</i>
Artur Swiech	<i>Random matrix model for crystal-glass transition</i>
Kevin Truong	<i>Statistics of eigenvectors in the deformed Gaussian unitary ensemble of random matrices</i>
Daniel Waltner	<i>The Correlated Jacobi and the Correlated Cauchy-Lorentz ensembles</i>
Lu Wei	<i>Asymptotic Correlations of Spiked Products of Ginibre Matrices</i>