

# 2015-16 Warwick EPSRC Symposium

## Random matrix theory and strongly correlated systems

21-24 March 2016

Organisers: Oleg Zaboronski, Roger Tribe, Neil O'Connell, Yan Fyodorov, Gernot Akemann

### Programme

All lectures will be held in Room B3.03, Mathematics Institute

#### Monday 21st March

- 08:30 Registration in Room B1.37
- 10:00-10:55 Coffee in the Mathematics Institute Common Room
- 10:55-11:00 Welcome from the organisers
- 11:00-11:50 **Arno Kuijlaars** (Leuven) *Propagation of singular behavior in UE and GUE sums*
- 11:50-12:40 **Pierpaolo Vivo** (KCL) *Universal fluctuation formulae for one-cut  $\beta$ -ensembles - with a combinatorial touch*
- 12:40-14:10 Lunch in the Mathematics Institute Common Room
- 14:10-15:00 **Khanh Duy Trinh** (Kyushi) *On spectral measures of beta ensembles*
- 15:00-16:00 Tea in the Mathematics Institute Common Room
- 16:00-16:50 **Chris Joyner** (QMUL) *The probability distribution of spectral moments for the Gaussian beta-ensembles*
- 18:00-20:00 Dinner in the Mathematics Institute Common Room

#### Tuesday 22nd March

- 09:00-09:50 **Gregory Schehr** (Orsay) *Finite temperature free fermions and the Kardar-Parisi-Zhang equation at finite time*
- 09:50-10:40 **Nikos Zygouras** (Warwick) *Variants of geometric RSK correspondence and the multipoint distribution of the log-gamma polymer*
- 10:40-11:00 Coffee in the Mathematics Institute Common Room
- 11:00-11:50 **Anna Maltsev** (Bristol) *Spectral properties of random fermionic models*
- 11:50-12:40 **Maurice Duits** (Stockholm) *Global fluctuations for non-colliding process*
- 12:40-14:10 Lunch in the Mathematics Institute Common Room
- 14:10-15:00 **Maciej Nowak** (Krakow) *Diffusion of characteristic polynomials and edge universality in non-hermitian random matrix models*
- 15:00-16:00 Tea in the Mathematics Institute Common Room

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### Programme cont.

- 16:00-16:50 **Ramis Movassagh** (Cambridge, Massachusetts) *Eigenvalue Attraction*  
 18:00-20:00 Dinner in the Mathematics Institute Common Room

### Wednesday 23rd March

- 09:00-09:50 **Igor Krasovsky** (Imperial) *Transition asymptotics for Toeplitz and Fredholm determinants*  
 09:50-10:40 **Mihail Poplavskiy** (Warwick) *Asymptotic behaviour of the largest real eigenvalue for the real Ginibre ensemble*  
 10:40-11:00 Coffee in the Mathematics Institute Common Room  
 11:00-11:50 **Dmitriy Savin** (Brunel) *Resonance width distribution beyond Porter-Thomas*  
 11:50-12:40 **Nina Snaith** (Bristol) *Combining random matrix theory and number theory*  
 12:40-14:10 Lunch in the Mathematics Institute Common Room  
 14:10-15:00 **Nick Simm** (Warwick) *Global fluctuations for the real component of the Ginibre orthogonal ensemble*  
 15:00-16:00 Tea in the Mathematics Institute Common Room  
 16:00-16:50 **Elliot Paquette** (Weizmann) *The law of large numbers for the maximum of the log-characteristic polynomial associated to GUE*  
 18:00-20:00 Dinner at Radcliffe

### Thursday 24th March

- 09:00-09:50 **Eugene Kanzieper** (Holon) *Power spectrum analysis of long eigenlevel sequences in quantum chaology*  
 09:50-10:40 **Francesco Mezzadri** (Bristol) *Large deviations of radial statistics in the two-dimensional one-component plasma*  
 10:40-11:00 Coffee in the Mathematics Institute Common Room  
 11:00-11:50 **Uzy Smilansky** (Weizmann) *Spectral statistics of the Unimodular Matrix Ensemble - A trace formula approach*  
 11:50-12:40 **Mario Kieburg** (Bielefeld) *An intriguing Relation between Eigenvalues & Singular Values of Bi-unitarily Invariant Random Matrices*  
 12:40-14:00 Lunch in the Mathematics Institute Common Room