



X Brunel–Bielefeld Workshop on Random Matrix Theory

Brunel University London – Hamilton Centre

Organisers: G. Akemann (Bielefeld), I. Krasovsky (Imperial), D. Savin and I. Smolyarenko (Brunel), O. Zaboronski (Warwick)

Friday, 12 December 2014:

	REGISTRATION	Newton's room
Yan Fyodorov	Topology (de)trivialization transition in high-dimen fields and landscapes	sional random
Neil O'Connell	Stochastic Backlund transformations	
	COFFEE BREAK	
Reimer Kühn	Spectra of large random stochastic matrices and complex systems	d relaxation in
Tiago Peixoto	Eigenvalue spectra of modular networks	
	LUNCH BREAK	
Marcel Novaes	Semiclassical approximation to quantum chaos as a	matrix model
Sebastian Müller	GSE statistics without spin	
	COFFEE BREAK	
Alexander Bufetov	ТВА	
Poster Session &	RECEPTION	Newton's room
Dinner	Zizzi, 223 High St, Uxbridge, tel. 01895 233100	
	Yan Fyodorov Neil O'Connell Reimer Kühn Tiago Peixoto Marcel Novaes Sebastian Müller Alexander Bufetov POSTER SESSION & DINNER	REGISTRATIONYan FyodorovTopology (de)trivialization transition in high-dimentialization transition to conference and complex systemsTiago PeixotoEigenvalue spectra of modular networks LUNCH BREAKMarcel NovaesSemiclassical approximation to quantum chaos as and COFFEE BREAKAlexander BufetovTBAPOSTER SESSION & RECEPTIONDINNERZizzi, 223 High St, Uxbridge, tel. 01895 233100

Saturday, 13 December 2014:

09:20-10:00	Clare Dunning	From classical to quantum integrable systems
10:00-10:40	Marta Mazzocco	Confluence of the Painleve equations, Cherednik algebras and q-Askey scheme
10:40-11:10		COFFEE BREAK
11:10-11:50	Karol Życzkowski	Random density matrices and convolutions of Marchenko-Pastur distribution
11:50-12:30	Mario Kieburg	Level statistics of the correlated and uncorrelated Wishart ensemble
12:30-14:00		LUNCH BREAK
14:00-14:40	Maciej Nowak	Spectral shock waves and spectral viscosity in dynamic random matrix models
14:40-15:20	Roger Tribe	Space time correlations for real Ginibre evolution
15:20-15:50		COFFEE BREAK
15:50–16:30	Ralf Müller	On the optimum asymptotic multiuser efficiency of randomly spread CDMA in logarithmically infinite overload

Poster Presentations:

Newton's room

Perret Anthony	Near-extreme eigenvalues and the first gap of Hermitian random matrices
Christophe Charlier	Asymptotics for Toeplitz determinants: perturbation of symbols with a gap
Fabio Cunden	Universal covariance formula for linear statistics on random matrices
Benjamin Fahs	Universality for eigenvalue correlations in a double scaling limit at the origin of the spectrum
Fabio Franchini	Spontaneous breaking of $U(N)$ symmetry in invariant matrix models
Barnaby Garrod	Annihilating Brownian motions and the edge of the real Ginibre ensemble
Jesper Ipsen	Asymptotic properties for products of a large number of Ginibre matrices
Indrajit Jana	Fluctuations of linear eigenvalue statistics of random band matrices
Chris Joyner	A discrete random walk approach to spectral statistics in Bernoulli matrix ensembles
Anna Maltsev	Linear spectral statistics for half-heavy-tailed Wigner matrices
Ricardo Marino	Phase transitions and edge scaling of number variance in Gaussian random matrices
Thorsten Neuschel	Jacobi polynomial moments and products of random matrices
Benjamin Niedner	Wronskians and duality of Cardy branes
André Nock	On GOE characteristic polynomials with half-integer powers
Yuchen Pei	The Catalan numbers and the quantum stochastic Lévy area
Alexi Reynolds	Moments of β -ensembles
Roman Riser	Fine asymptotics in a random normal matrix ensemble
Dries Stivigny	Products with truncated unitary matrices
Artur Świech	Local level statistics – free probability meets supersymmetry
Christophe Texier	Joint distribution of two linear statistics in the Laguerre ensemble
Daniel Waltner	Eigenvalue distribution in the doubly correlated Wishart ensemble
Christian Webb	The characteristic polynomial of CUE and Gaussian multiplicative chaos
Lu Wei	Sphere packing bounds and restricted partition functions
Tim Wirtz	From a non-invariant correlated Wishart model to an invariant Hermitian matrix model