WMI

EPSRC Symposium Workshop on

Interacting particle systems, growth models and random matrices

19-23 March 2012

Organisers: Neil O'Connell (Warwick), Janosch Ortmann (Warwick) and Jon Warren (Warwick)

All talks will take place in Room B3.03, Mathematics Institute

PROGRAMME

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08:00-09:30	Registration in B1.37 and Coffee in the Mathematics Common Room		
09:30-10:00	Jinho Baik (Michigan)	Maximal crossing and nesting of random matchings	
10:00-10:30	Brian Rider (Colorado)	Spiking the hard edge	
10:30-11:30	Coffee in the Mathematics Common Room	, 3	
11:30-12:00	Piotr Sniady (Wroclaw)	Second class particles and random Young tableaux	
12:-00-12:30	* *	Fluctuation exponents for directed polymers in the intermediate disorder regime (work in progress)	
12:30-14:00	Lunch in the Mathematics Common Room	1	
14:00-15:00	Poster session/ Discussion		
15:00-16:00	Tea in the Mathematics Common Room		
16:00-16:30	Daniel Remenik (Toronto)	Variational problems for the Airy2 process	
16.30-17:00	Alan Hammond (Oxford)	The multi-line Airy process and its Brownian-Gibbs property	
17:00-17:30	Oleg Zaboronski (Warwick)	Pfaffian formulae for one dimensional coalescing and annihilating systems	
18:30	Dinner and Drinks reception in the Mathe	— ·	

Tuesday 20th March

09:30-10:00	Patrik Ferrari (Bonn)	Non-intersecting random walks in the
10:00-10:30	Vivit Johansson (VTU)	neighborhood of a symmetric tacnode The Brownian tacnode
	Kurt Johansson (KTH)	
10:30-11:00	Pierre van Moerbeke (Louvain)	Double Aztec diamond and the tacnode process
11:00-11:30	Coffee in the Mathematics Common Rooi	m
11:30-12:00	Gregory Schehr (CNRS)	Extremes of N vicious walkers for large N: application to the directed polymer and KPZ interfaces
12:00-12:30	Miguel Tierz (Lisbon)	Random matrices and vicious walkers in gauge theory problems
12:30-14:00	Lunch in the Mathematics Common Roor	n
14:00-15:00	Poster session/ Discussion	
15:00-16:00	Tea in the Mathematics Common Room	
16:00-16:30	Hirofumi Osada (Kyushu)	Infinite-dimensional stochastic differential equations related to random matrices
16.30-17:00	Hideki Tanemura (Chiba)	Stochastic differential equations related to soft-edge scaling limit the triangular lattice
17:00-17:30	Vadim Gorin (MSRI/IITP)	Infinitely many non-intersecting random walks

For further information on these and other events see:

go.warwick.ac.uk/mathsevents

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Interacting particle systems, growth models

and random matrices PROGRAMME (cont.)

09:30-10:00 Philippe B	iane (Marne-la-Vallee)	Duistermaat-Heckman meas	ure and Brownian motion on
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matrices

10:00-10:30 **Reda Chhaibi (Paris VI)** *Geometric Littelmann crystals, Whittaker functions and*

Brownian motion

10:30-11:00 Makoto Katori (Chuo) Vicious Brownian motion, O'Connell's process, and

equilibrium Toda lattice

11:00-11:30 Coffee in the Mathematics Common Room

11:30-12:00 **Benoit Collins (Ottawa)** Norm convergence for unitary random matrices
12:00-12:30 **Anthony Metcalfe (KTH)** Universality problems relating to lozenge tilings of a

hexagon

12:30-13:30 Lunch in the Mathematics Common Room

14:03-22:30 Excursion to Stratford on Avon - coach transport provided to/from campus

Thursday 22nd March

09:30-10:00	Ivan Corwin (Microsoft/MIT)	Directed random polymers and Macdonald processes I
10:00-10:30	Alexei Borodin (MIT)	Directed random polymers and Macdonald processes II
10:30-11:00	Leonid Petrov (IITP)	Uniformly random lozenge tilings of polygons on

the triangular lattice

11:00-11:30 Coffee in the Mathematics Common Room

11:30-12:00 **Herbert Spohn (Munich)** The KPZ scaling theory applied to the semi-discrete

directed polymer model

12:00-12:30 **Tomohiro Sasamoto (Chiba)** *Stationary two-point correlation for the KPZ equation*

12:30-13:30 Lunch in the Mathematics Common Room

14:00-15:00 Poster session/ Discussion

15:00-16:00 Tea in the Mathematics Common Room

16:00-16:30 **Benedek Valkó (Madison)** Point processes and carousels

16:30-17:00 **Stephanie Jacquot (Cambridge)** *Bulk scaling limit of the Laquerre ensemble*

17:00-17:30 **Balint Virag (Toronto)** GOE minors and beads

18:30 Dinner and Drinks Reception in the Mathematics Common Room

Friday 23rd March

09.30-10.00 Jasiia Gilediii (Oti etiit) Conerent pennutution growtii int	09:30-10:00 S a	asha Gnedin (Utrecht	t) Coherent permutation growth mod	els
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10:00-10:30 **Pierre-Loic Méliot (Zurich)** Fluctuations of random partitions under central

measures

10:30-11:00 Marek Bozejko (Wrocław) Deformed Fock spaces, Hecke operators and monotone

Fock space of Muraki

11:00-11:30 Coffee in the Mathematics Common Room

11:30-12:00 **Alex Bloemendal (Harvard)** Continuum limits of spiked random matrices and linear

PDEs at the soft edge

12:00-12:30 **Friedrich Goetze (Bielefeld)** Local universality of repulsive particle systems and global

approximations for random matrices

12:30-13:30 Lunch in the Mathematics Common Room

14:00-15:00 Poster session/ Discussion

15:00-16:00 Tea in the Mathematics Common Room

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