« Interacting particle systems and percolation »

Monday October 27th – Friday 31st, 2008

Amphitheater Hermite and Poster session (Room 1)
Institut Henri Poincaré – 11 rue Pierre et Marie Curie – Paris 5ème

Program

Monday October 27th

09.30am – 10.20am	**T. Liggett :** The Symmetric Exclusion Process: Correlation Inequalities and Applications.
10.20am – 11.10am	**M. Balazs :** A microscopic concavity property and $t^{1/3}$ scaling of current fluctuations in particle systems I.
11.10am – 11.30am	*Coffee Break*
11.30am – 12.20pm	**T. Seppäläinen :** A microscopic concavity property and $t^{1/3}$ scaling of current fluctuations in particle systems II.
12.20pm – 02.00pm	*Lunch*
02.00pm – 03.00pm	**Poster session**
03.00pm – 03.50pm	**M. Evans :** Matrix representation of the stationary measure for the multispecies TASEP.
03.50pm – 04.10pm	*Coffee Break*
04.10pm – 05.00pm	**J. Martin :** Multiclass queues and interchangeability
05.00pm – 05.30pm	**J. Lebowitz,** moderator : Human Rights and Social Responsibility of Scientists.

Tuesday October 28th

09.30am – 10.20am	**J. Lebowitz :** Local and Global Structure of stationary states of macroscopic systems.
10.20am – 11.10am	**B. Derrida :** Universal fluctuations of diffusive systems.
11.10am – 11.30am	*Coffee Break*
11.30am – 12.20pm	**A. Borodin :** Growth of random surfaces.
12.20pm – 03.00pm	*Lunch*
03.00pm – 03.50pm	**P. Ferrari :** Limit processes in KPZ growth.
03.50pm – 04.10pm	*Coffee Break*
04.10pm – 05.00pm	**Y. Peres : (**Mini Course 1) Gravitational Allocation and Internal DLA.

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Wednesday October 29th

09.30am – 10.20am	**C. Newman :** Scaling Limit of the One-Dimensional Stochastic Potts Model.
10.20am – 11.10am	**S. Sethuraman** : Tagged particle asymptotics in certain zero-range and exclusion systems.
11.10am – 11.30am	*Coffee Break*
11.30am – 12.20pm	**G. Schütz :** Exact solution of the Bernoulli matching model of sequence alignment.
12.20pm – 3pm	*Lunch*
03.00pm – 03.50pm	**R. van den Berg :** Approximate zero-one laws and sharp percolation transitions.
03.50pm – 04.10pm	*Coffee Break*
04.10pm – 05.00pm	**J. Fritz :** Microscopic derivation of isentropic elasticity.
05.00pm – 07.00pm	*Cocktail*

Thursday October 30th

09.30am – 10.20am	**G. Fayolle :** Hydrodynamic limit of some multi-type exclusion processes via functional integration.
10.20am – 11.10am	**C. Landim :** Hydrodynamic limit of gradient exclusion processes with conductances.
11.10am – 11.30am	*Coffee Break*
11.30am – 12.20pm	**D. Dhar :** Patterns formed by growing sandpiles.
12.20pm – 03.00pm	*Lunch*
03.00pm – 03.50pm	**O. Angel :** The TASEP speed process.
03.50pm – 04.10pm	*Coffee Break*
04.10pm – 05.00pm	**Y. Peres : (**Mini Course 2) Gravitational Allocation and Internal DLA.

Friday October 31st

09.30am – 10.20am	**R. Durrett :** Particle Systems on Random Graphs.
10.20am – 11.10am	**J. Steif :** Dynamical sensitivity of the infinite cluster in critical percolation.
10.10am – 11.30am	*Coffee Break*
11.30am – 12.20pm	**G. Ben Arous :** TBA .
12.20pm – 03.00pm	*Lunch*
03.00pm – 03.50pm	**B. Tóth :** Erdos-Renyi random graphs + forest fires = self organized criticality.
03.50pm – 04.10pm	*Coffee Break*
04.10pm – 05.00pm	**Y. Peres :** (Mini Course 3) Gravitational Allocation and Internal DLA.

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