go.warwick.ac.uk/miraw

Spring Term 2008/2009



Monday 2 & Tuesday 3 February 2009 Condensation, aggregation and coagulation in particle systems

Organisers: Stefan Grosskinsky & Oleg Zaboronski

All talks will be in the Complexity Seminar Room D1.07, Mathematics Institute, Zeeman Building Lunch, tea and catered dinner are in the Complexity Common Area right outside D1.07

Monday 2nd February 2009

- 10:00 12:00 Introduction for complexity students 12:00 - 13:00 Sandwich lunch

14:30 - 15:10 **Martin Howard** (Norwich) Modelling noisy concentration gradients in developmental biology

- 15:15 16:00 Tea break
- 16:00 16:40 Markus Kraft (Cambridge) Coupling algorithms for calculating sensitivities of population balances
- 16:45 17:25 **Vassili Kolokoltzov** (Warwick) Dynamic law of large numbers and central limit theorem with the estimates of error terms for Smoluchovski's coagulation and Boltzmann collisions
- 17:30 18:10 **James Norris** (Cambridge) Smoluchowski's equation for Brownian coagulation
 - 18:30 Dinner

Tuesday 3rd February 2009

	•
9:00 - 9:40	Colm Connaughton (Warwick)
	Nonlocal mass cascades in cluster-cluster aggregation
9:45 - 10:25	Amanda Turner (Lancaster)
	Planar aggregation and the coalescing Brownian flow
10:30 - 11:00	Coffee break
11:00 - 11:40	Rosemary Harris (QMUL)
	Current fluctuations in stochastic particle systems with condensation
11:45 - 12:25	Martin Evans (Edinburgh)
	Matrix representation of the stationary measure for the multispecies
	asymmetric simple exclusion process
12:30 - 13:30	Sandwich lunch
13:30 - 14:10	Tomohiro Sasamoto (Munich)
	The dynamics of a tagged particle in 1D TASEP
14:15 - 14:55	Volker Betz (Warwick)
	Bose-Einstein condensation and infinite cycles in random permutations
15:00 - 15:40	Stefan Adams (Warwick)
	A 'slingshot' model for symmetrised systems of Brownian bridges
15:45	Tea break and end

Talks will be held in the Mathematics Institute, Zeeman Building, University of Warwick For detailed MIR@W programmes please see our website: go.warwick.ac.uk/miraw/days

THE UNIVERSITY OF

