

Spring Term 2010/2011

Monday 7 March 2011

Monte Carlo Methods

Organisers: Mike Allen (Physics), Stefan Grosskinsky

All talks will be in Room B3.02, Mathematics Institute, University of Warwick

12:00 - 12:40 **Gareth Roberts** (Warwick, Statistics)

Introduction to adaptive Markov Chain Monte Carlo

12:40 - 13:10 **Mike Allen** (Warwick, Physics)

Lattice peptide simulations using the Wang-Landau Monte Carlo method

13:10 - 14:00

Lunch in the Mathematics Institute Common Room

14:00 - 14:40 **David Wild** (Warwick, Systems Biology)

Exploring the energy landscapes of protein folding simulations with Bayesian computation

14:40 - 15:20 **Adam Johansen** (Warwick, Statistics)

Monte Carlo Solution of Integral Equations (of the Second Kind)

15:20 - 15:50

Tea in the Mathematics Institute Common Room

15:50 - 16:30 **David Cheung** (Warwick, Chemistry)

Monte Carlo simulations of interfaces and surfaces

16:30 - 17:10 **Markus Kraft** (Cambridge)

Stochastic numerics for the gas-phase synthesis of nanoparticles

17:10 - 17:50 **Anthony Lee/Chris Holmes** (Oxford)

On the utility of graphics cards to perform massively parallel simulation with advanced Monte Carlo methods

Short talks:

17:50 - 18:10 **Dan Barker** (Warwick, Complexity)

Tempering Algorithm for Large-sample Network Inference

18:10 - 18:30 **Peter Man** (Cambridge)

Bayesian inference for expensive computer models in chemical engineering

18:30

Wine and snacks in the Mathematics Institute Common Room

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