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  **David Wild** (Warwick, Systems Biology)  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