

MASCOS Research Workshop 2006 Program

The time allotted for each talk is strictly 25 minutes. There will be a 20 minute discussion time following each talk, and we encourage speakers to use this time to lead a discussion on potential collaborative research.

Registration will be held at AMSI, located in the ICT building, 111 Barry Street, Carlton. All talks will be held in Lecture Theatre 2 of the ICT building.

Monday 20 February

- 9:30 Registration and Coffee/Tea

- 10:00 Welcome
- 10:15 Nathan Clisby, *Enumerating self avoiding walks via the lace expansion*
- 11:00 Robert Parviainen, *Markov Exclusion Processes, Lattice Paths, and Permutations - Combinatorial Connections*
- 11:45 Aleks Owczarek, *Monte Carlo, critical phenomena, MASCOS and all that*

- 12:30 Lunch

- 2:00 Tony Dooley, *Ergodic theory and entropy*
- 2:45 David Hill, *Stability Theory: Towards Complex Networks*
- 3:30 Jonathan Manton, *Automated design of algorithms: a potential research direction*

- 4:15-5:30 Discussion and drinks, MASCOS building, 139 Barry Street, Carlton.

- 7:00 Dinner, Moreton's Brasserie, 166 Rathdowne Street, Carlton. For those walking, we will depart from MASCOS at 6.30.

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Tuesday 21 February

- 9:45 Coffee/Tea

- 10:15 Peter van der Kamp, *About integrability, number theory and geometry*
- 11:00 Hanjun Zhang, *Computable strong ergodic convergence rates for continuous-time Markov Chains*
- 11:45 Chris Heyde, *Deciding on a model: when is multifractality unavoidable?*

- 12:30 Lunch

- 2:00 Yao-Ban Chan, *Statistical tools for diagnosing mental diseases using electrophoresis scans*
- 2:45 Martin O’Hely, *Models of gene duplication processes*
- 3:30 Munish Goyal, *Mathematics of query-response networks*

- 4:15 Drinks, MASCOS building, 139 Barry Street, Carlton.