

30th Annual Statistical Mechanics Meeting
Manning Clark Theatrette 4, Australian National University

TIMETABLE

Monday 1 December 2003

- 9.00 Tea and Coffee** – room 1175 John Dedman building
- 9.50** Branching complexity of neurons
B. Henry (UNSW)
- 10.15** Hysteresis in turbulent flows: Work in progress
R. Ball (ANU)
- 10.40** Simulation of the extended Domb Joyce model: An application of flatPERM
(flat histogram version of the pruned-enriched Rosenbluth method)
J. Krawczyk and T. Prellberg (Clausthal, Germany)
- 11.05 Tea and Coffee** – room 1175 John Dedman building
- 11.30** The dynamics of a colloidal bead captured in an optical trap:
A direct experimental demonstration of the transient fluctuation theorem
D. Carberry (ANU)
- 11.55** Steady state fluctuations
D. Bernhardt (Griffith)
- 12.20** Liquids and solids under strain
J. Petracic (ANU)
- 12.45** Thermodynamic pressure in strongly shearing fluids
P. Davis (RMIT)
- 1.10 Lunch**
- 2.10** Stochastic Molecular Dynamics
P. Attard (Sydney)
- 2.35** Localized behaviour in the Lyapunov vectors for many-particle systems
T. Taniguchi (UNSW)
- 3.00** Examination of Methane Transport in Microporous Materials
O. Jepps (Queensland)
- 3.25 Tea and Coffee** – room 1175 John Dedman building
- 3.55** Applications and generalizations of Fisher-Hartwig asymptotics
P. Forrester (Melbourne)
- 4.20** One analytical formula for the A_2 Jack polynomials
V. Mangazeev (ANU)
- 4.45** Equilibrium in non-equilibrium: The ASEP model and lattice paths
R. Brak (Melbourne)
- 5.10** Ergodic theory, fractal tops and colour stealing
M. Barnsley (ANU)
- 7.00 Dinner** – Scarth Room, University House

- 9.00** Boundary flows in the tricritical Ising model
P. Pearce (Melbourne)
- 9.25** Modular hyperelliptic q -difference equations
S. Sergeev (ANU)
- 9.50** Integrable models and simple ODEs
C. Dunning (Queensland)
- 10.15** Higher-level eigenvalues of Q -operators and Schroedinger equation
V. Bazhanov (ANU)
- 10.40** **Tea and Coffee** – room 1175 John Dedman building
- 11.10** Nonequilibrium electron transport in mesoscopic systems
M. Das (ANU)
- 11.35** Chebyshev expansion methods for the study of disorder problems
A. Weisse (UNSW)
- 12.00** The quantum Hall effect and my favourite lattice
A. Owczarek (Melbourne)
- 12.25** **Lunch**
- 1.30** Seiberg-Witten theory and spin chains
A. Morozov (Moscow)
- 1.55** The autocorrelation function in the XXZ-chain at infinite temperature
J. Sirker (UNSW)
- 2.20** Integral equations with a finite number of unknown functions for thermodynamics of solvable lattice models
Z. Tsuboi (Tokyo)
- 2.45** Quantum spin ladders: Exact high temperature expansion results and comparison with experiments
N. Oelkers (ANU)
- 3.10** **Tea and Coffee** – room 1175 John Dedman building
- 3.40** Monte Carlo and series studies of two-dimensional SAW
T. Guttman (Melbourne)
- 4.05** The corner transfer matrix reloaded
Y. Chan (Melbourne)
- 4.30** Encounters with delta-interaction
M. Batchelor (ANU)

NOTES

Please bring (p)reprints for display in room 1175.

All talks are of 25 mins duration, including questions.

For those parking near John Dedman, free parking permits will be available on Monday morning.