2008 Statistical Mechanics: Program

Monday, 1 December

9.30–10.00	Tea and Coffee	
10.00	Richard Brak *(Melbourne)*	A bijection between partially directed walks in a wedge and involutions without fixed points
10.20	Tim Garoni *(Melbourne)*	Worm algorithms
10.40	Norm Frankel *(Melbourne)*	Mean pursuits
11.00–11.30	Tea and Coffee	
11.30	Murray Batchelor *(ANU)*	Interacting multi-component fermions
11.50	Jan de Gier *(Melbourne)*	Slowest relaxation mode of partially asymmetric simple exclusion process with open boundaries
12.10	Sebastien Leonard *(Sydney)*	Thermal relaxation fronts propogate into a glassy thin film
12.30	Helen Perk *(Oklahoma)*	Overlapping unit cells in 3-d quasicrystal structure
12.50–2.20	Lunch	Lygon St./Student Union/Etc.
2.20	Debra Bernhardt *(Griffith)*	The dissipation theorem
2.40	Peter Daivis *(RMIT)*	Non-linear response fluids --- is there an ideal thermostat?
3.00	Vanessa de Souza *(Sydney)*	Unconstrained motions and relaxation in a disordered network of bonds
3.20	Denis Evans *(ANU)*	Fluctuation theorems and thermodynamics
3.40–4.10	Tea and Coffee	
4.10	Nick Witte *(Melbourne)*	The Bethe ansatz from the analytical viewpoint
4.30	Iwan Jensen *(Melbourne)*	On the five- and six-particle contributions to the Ising model susceptibility
4.50	Judy-anne Osborn *(ANU)*	Banded lattice paths
5.10	Vlad Bazhanov *(ANU)*	Quantum Yang-Baxter equation for classical dynamics
6.30	Dinner	The Kent Hotel, 370 Rathdowne St, Nth Carlton

2008 Statistical Mechanics: Program

Tuesday, 2 December

8.30–9.00	Tea and Coffee	
9.00	Peter Forrester *(Melbourne)*	Systems of differential equations for some correlation functions
9.20	Phil Attard *(Sydney)*	Theory for non-equilibrium statistical mechanics: new simulation algorithms
9.40	Peter Jarvis *(Tasmania)*	Quantum dissipative systems –- exactly solvable limits via bosonization of fermion gas-impurity models
10.00	Jorgen Rasmussen *(Melbourne)*	W-extended fusion in critical dense polymers and critical percolation
10.20–11.00	Tea and Coffee	
11.00	Jacques Perk *(Oklahoma)*	New results on correlations in Ising models
11.20	Jon Links *(Queensland)*	Bethe ansatz solution for the BCS model with p+ip pairing symmetry
11.40	Anthony Mays *(Melbourne)*	Odd correlations for $\beta=1$ random matrices
12.00	Peter Harrowell *(Sydney)*	Soft modes and irreversible relaxation in supercooled liquids
12.20–1.50	Lunch	Lygon St./Student Union/Etc.
1.50	Tony Guttmann *(Melbourne)*	Four-dimensional lattice Green's functions
2.10	Anita Ponsaing *(Melbourne)*	A solution of the Type C q-deformed Knizhnik-Zamolodchikov equation
2.30	Vlad Mangazeev *(ANU)*	Variational approach to the scaling function of the 2D Ising model in a magnetic field
2.50	Matthew Zuparic *(Melbourne)*	Fermionization of the six-vertex model and the KP hierarchy
3.10–3.40	Tea and Coffee	
3.40	Stephen Williams *(ANU)*	Response theory and the viscosity of solid materials
4.00	Toby Hudson *(Sydney)*	Stress relaxation in a continuous random network
4.20	Billy Todd *(Swinburne)*	Non-locality and its implications for nanofluidics
4.40	Nathan Clisby *(MASCOS)*	Critical exponents for self-avoiding walks from a fast implementation of the pivot algorithm