

Statistical Mechanics and Related Topics in Mathematical Physics

School of Physics, University of New South Wales, December 3–5, 1997

Rodney Baxter (ANU)

Direction in the Star-Triangle Relations

George Andrews

Random Graphs, q -Series and Lattice Paths

Paul Pearce (Melbourne)

TBA Equations and RG Flow

Murray Batchelor (ANU)

Scaling of Roots to the Bethe Ansatz Equations

Richard Brak (Melbourne)

Six-vertex Lattice Paths and the Bethe Ansatz

Will Orrick (Melbourne)

Single Particle Dispersion Curves for Off-Critical RSOS Models Based
on Simply Laced Lie Algebras

Peter Forrester (Melbourne)

Quaternion determinants and Random Matrix Theory

Vladimir Bazhanov (RSPHYS, ANU)

Point Contact Current in the Quantum Hall System

Omar Foda (Melbourne)

Restricted Kostka Polynomials

Jacques Perk (Melbourne)

More on Chiral Potts

Phil Attard (Sydney)

Entropy, Signal Processing, and the Ising Model

Robert Bursill (UNSW)

New Density Matrix RG Algorithm for Quantum Lattice Systems

Ross McKenzie (UNSW)

Finite Size Scaling for a One-Dimensional Model of Interacting Fermions
and Bosons

Chris Hamer (UNSW)

Some Series Results for the t - J Model

Maria Samaras (UNSW)

$(1 + 1) D$ Transverse Ising Model

Tony Guttmann (Melbourne)

Recent Progress on the Study of the 2-, 3- and 4-State Potts Model

Andrew Rechnitzer (Melbourne)

Directed Percolation: The Surfaces of Clusters

Aleks Owczarek (Melbourne)

Cluster Structure of Collapsing Polymers

Swan Jensen (Melbourne)

A New Algorithm for Low-Density Series Expansions for Directed Percolation

V. Flambaum (UNSW)

Statistical Theory of Finite Systems Based on the Properties of Chaotic Eigenstates

Ilya Ponomarev (UNSW)

Small Fermi System. How Does Thermodynamics Apply?

Oleg Sushkov (UNSW)

Brueckner Approach to Spin Waves in Spin Liquid State

Valeri Kotov (UNSW)

RG Approach to 1D Electron-Phonon Models.

Jaan Oitmaa (UNSW)

Spin Ladders

Weihong Zheng (UNSW)

Heisenberg Antiferromagnet on Coupled Planes

Debra Searles (Queensland)

The Conjugate Pairing Rule and Nonequilibrium Molecular Dynamics Simulation Algorithms

Janka Petravic (ANU)

Time Dependent Kawasaki Distribution

Billy Todd (CSIRO)

Nonlinear Response Theory Applied to Extensional Flows

Peter Daivis (RMIT)

Heat Flow in a Shearing System—Eulerian Treatment

Robert Wild (Sydney)

Density Functional Theory of the Kinetics of Crystallization of Hard Sphere Suspensions

Donna Perera (Sydney)

Dynamical Correlations in a Two-Dimensional Glass-Forming Binary Mixture

Michael Booth (Sydney)

Integral Equation Approximations for Inhomogeneous Fluids: Theory and Practice

Owen Jepps (ANU)

Information Content of Digitised Random Signals

Bruce Henry (UNSW)

Statistical Mechanics with Two-Degrees of Freedom: The Haunt of the Ghost Tori

Simon Watt (UNSW)

Scaling Exponents For Circular Geometry Eden Growth Models

Carmelo Pisani (UNSW)

Beyond the Initial Value Problem in Classical Mechanics

Jan Hansen (ADFA)

Applying the New Symplectic Algorithms to Shear Flow Problems

Alfred Uhlherr (CSIRO)

Statistical Sampling of Internal Sections of Atomistic Chain Molecules

Peter Harrowed (Sydney)

A 2D Glass: Microstructure and Dynamics of a 2D Binary Mixture.