# Australian Statistical Mechanics Meeting: Mathematics Department, University of Melbourne

## 15 NOVEMBER 1990

A. J. Guttmann (Melbourne)   Collapse transitions in polymer systems

R. Brak (Melbourne)   Row convex polygons

P. A. Pearce (Melbourne)   Finite-size corrections and scaling dimensions of tricritical hard squares and critical hard hexagons

A. Klümper (Melbourne)   The central charge of spin-1/2 and spin-1 quantum spin chains

M. N. Barber (A.N.U.)   Interface dynamics in phase field models

G. Morriss (U.N.S.W.)   The conjugate pairing rule for Lyapunov exponents of shearing fluids

K. Briggs (La Trobe)   Complex Feigenvalues

C. Pisani (Melbourne)   Quantum statistical mechanics and geometric optics

T. Taucher (Melbourne)   Short range order in a mean field theory for the spin glass

N. E. Frankel (Melbourne)   Is a glass of bosons a boson glass?

## 16 NOVEMBER 1990

R. J. Baxter (A.N.U.)   Recent work on the chiral Potts model

R. B. Zhang (Queensland)   Quantum groups, the Yang–Baxter equation and link polynomials

A. Kuniba (A.N.U.)   Exact solution of SOS models for twisted affine Lie algebras $A_{2n}^{(2)}$ and $A_{2n-1}^{(2)}$

C. J. Hamer (U.N.S.W.)   The square lattice Heisenberg antiferromagnet at $T = 0$

J. Oitmaa (U.N.S.W.)   Ising models on hyperbolic lattices

P. Lloyd (Monash)   A classical diffusion problem with a critical point

C. J. Thompson (Melbourne) Statistical    mechanics    of    the    strongly correlated Hubbard chain

S. Yang (Melbourne)        High-$T$ expansions of the strongly correlated Hubbard model

J. A. Henderson (U.N.S.W.) A strong coupling expansion of the Hubbard model

T. C. Choy (Monash)        Effective    medium    theory,    from    DC    to microwave, with application to superconductors

G. Pereira (Melbourne)     The excluded volume problem for a spherically symmetric mean field

A. Eastaugh (Melbourne)    Temperley–Lieb models and the Owczarek–Baxter condition