



Sefydliad Gwyddorau Mathemategol a Chyfrifiannol Cymru
Wales Institute of Mathematical and Computational Sciences

Mathematical Physics Colloquium

Monday 3rd March 2008, Swansea University

Seminar Room

Department of Mathematics

School of Physical Sciences

Programme

15.00 – 16.00

Professor Roman Kotecky (Prague and Warwick)

Title: Entropic barriers for coloring Potts anti-ferromagnets

Abstract: We prove that the 3-state Potts antiferromagnet on the diced-lattice has a long range order at zero as well as small non-vanishing temperatures. The barriers between distinct Gibbs states are purely entropical. This is the first example of a bipartite two-dimensional lattice in which $q_c > 3$.

The talk is based on a joint paper with J. Salas and A. Sokal.

16.00

Tea

Vitaly Moroz
David E Evans

WIMCS MP Cluster