

COMBINATORICS  
COLLOQUIUM

*Coordinate Percolation*

Peter Winkler  
Dartmouth College

**Abstract:** Percolation is the study of random subgraphs of a graph. In coordinate percolation, the big graph is a grid of some kind, and inclusion of a vertex depends on random values associated with the lines that cross there. Coordinate percolation arises in scheduling problems (in contrast to independent percolation, intended originally as a model for porous material).

We'll consider several examples, including one that is notoriously difficult, and another that becomes miraculously easy when (with Lizz Moseman, NIST) combinatorial methods are applied.

Monday, March 28, 2011, 4:00 pm  
Mathematics and Science Center: W201

MATHEMATICS AND COMPUTER SCIENCE  
EMORY UNIVERSITY