LMS Durham Symposium on Probabilistic Methods in Combinatorics
28th June - 8th July 1991

Programme

Saturday 29th June

9.40	Welcome
9.45-10.45	Professor Svante Janson Asymptotic distributions of graph statistics.
	Coffee
11.30-12.30	Professor Noga Alon Probabilistic methods in Combinatorial Number Theory.
1.00	Lunch
4.00	Tea
4.30-5.30	Dr. Graham Brightwell Linear Extensions of random partial orders.

Sunday 30th June

9.30-10.15	Professor J. Michael Steele Probability theory of Euclidean Optimization Problems.
10.15-11.00	Professor Joel Spencer Aspects of the 'Local Lemma', especially algorithmic implementations due to J. Beck.
	Coffee
11.30-12.30	Professor Boris Pittel On likely solutions of a stable matching problem.
1.00	Lunch
4.00	Tea
4.30-5.30	Professor Alan Frieze Matchings in random graphs.

Monday 1st July

9.30-10.15	Professor Noga Alon The Hadwiger-Debrunner conjecture on piercing convex sets.
10.15-11.00	Professor Herb. S. Wilf Some probabilistic problems on labelled trees.
	Coffee
11.30-12.30	Dr. Tomasz Luczak First-order properties of random structures.
1.00	Lunch
1.50	Symposium photograph
2.30	Cathedral visit
4.30	Tea

Tuesday 2nd July

9.30-10.15	Dr. John M. Hammersley Self-avoiding walks.
10.15-11.00	Professor Hans-Jürgen Prömel Excluding subgraphs: remarks on the asymptotic structure and some consequences.
	Coffee
11.30-12.30	Professor Umesh Vazirani Reversible Markov chains and learning theory.
1.00	Lunch
4.00	Tea
4.45-5.30	Dr. Colin McDiarmid Quicksort rarely makes large deviations
5.30-6.30	Professor John C. Wierman Equality of critical exponents in bond percolation models.

Thursday 4th July

9.30-10.00	Professor J. Michael Steele Some random problems.
10.00-11.00	Dr János Pach ε–nets and combinatorial geometry.
	Coffee
11.30-12.30	Professor Harry Kesten Speed of convergence in first-passage percolation.
1.00	Lunch
4.00-4.30	Tea
4.45-5.30	Professor Andrzej Ruciński Random graphs with maximal degree 2.
5.30-6.30	Professor Mike Paterson Shrinkage of formulae and stretching of lower bounds.
7.15	Sherry
7.45	Conference dinner

Friday 5th July

9.30-10.15	Dr. Martin Dyer Random walks on unimodular zonotopes.
10.15-11.00	Professor Alan Frieze Multicoloured Hamiltonian cycles.
	Coffee
11.30-12.15	Dr. Colin Cooper Hamilton cycles in k-in, k-out digraphs.
1.00	Lunch
4.00-4-30	Tea
5.00-6.00	Professor Peter J. Donnelly The biology of random permutations.

Saturday 6th July

9.30-10.15	Dr. Tomasz Luczak Phase transition phenomena in different models of random structures.
10.15-11.00	Professor John Hawkes Branching trees and the Neyman-Scott model for galaxies.
	Coffee
11.30-12.00	Professor Boris Pittel The structure of a random graph at the point of phase transition.
12.00-12.30	Professor Joel Spencer Proportional graphs.
1.00	Lunch
4.00-4.30	Tea
5.00-5.30	Dr. Mark Jerrum The elusiveness of large cliques in a random graph.
5.30-6.00	Professor Svante Janson Very recent progress on the number of linear extensions of a random partial order.

Sunday 7th July

9.30-10.00	Dr. Bernd Voigt Ramsey properties of random graphs.
10.00-10.30	Professor Svante Janson The number of perfect matchings in a random graph.
10.30-11.00	Dr. Zoltán Füredi Random sets in high-dimensional spaces.
	Coffee
11.30-12.30	Professor Umesh Vazirani The isolating lemma and its applications.
1.00	Lunch
4.00-4.30	Tea
5.00-5.45	Professor Harry Kesten Inequalities for the time-constant in first-passage percolation
5.45-6.30	Professor Geoffrey Grimmett Random walks and electrical networks on random lattices