

Workshop III: Topics in Graphs and Hypergraphs

Monday November 2, 2009

- 8:00–8:50 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:50–9:00 *Welcome and Opening Remarks*
- 9:00–9:50 **Dhruv Mubayi** (University of Illinois at Chicago)
Coloring Simple Hypergraphs
- 10:00–10:15 *Break*
- 10:15–11:05 **Peter Keevash** (Queen Mary, University of London)
Shadows and intersections: stability and new proofs
- 11:15–11:30 *Break*
- 11:30–12:20 **Maria Chudnovsky** (Columbia University)
Large cliques and stable sets in graphs with no 4-edge paths or 5-edge antipaths
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Endre Szemerédi** (Rutgers University)
Spanning Trees in Dense Graphs
- 3:30–4:00 *Break*
- 4:00–4:50 **David Conlon** (University of Cambridge)
Combinatorial theorems relative to a random set
- 5:00–6:30 *Reception and Poster Session (Hosted by IPAM)*

Tuesday November 3, 2009

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Paul Seymour** (Princeton University)
Tournament immersion and Rao's degree-sequence conjecture
- 10:00–10:15 *Coffee Break*
- 10:15–11:05 **Penny Haxell** (University of Waterloo)
Packing and covering in hypergraphs
- 11:15–11:30 *Break*

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- 11:30–12:20 **Po-Shen Loh** (Princeton University)
Maximizing the number of colorings
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Bojan Mohar** (Simon Fraser University)
Chromatic number and complete graph substructures for degree sequences
- 3:30–4:00 *Break*
- 4:00–4:50 **Asaf Shapira** (Georgia Institute of Technology)
Color-Critical Graphs Have Logarithmic Circumference

Wednesday November 4, 2009

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Jarik Nesetril** (Charles University, Prague)
Existence and Counting
- 10:00–10:15 *Coffee Break*
- 10:15–11:05 **Vera Sos** (Renyi Institute of Mathematics)
Convergence and limits of graph sequences
- 11:15–11:30 *Break*
- 11:30–12:20 **Alexander Kostochka** (University of Illinois at Urbana-Champaign)
Coloring and equitable coloring of graphs with restrictions on degrees of vertices and edges
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Tibor Szabo** (Freie Universität Berlin)
On the minimum degree of minimal Ramsey graphs
- 3:30–4:00 *Break*
- 4:00–4:50 **Oleg Pikhurko** (Carnegie-Mellon University)
Minimum Saturated Graphs and Hypergraphs

Thursday November 5, 2009

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Miklos Simonovits** (Renyi Institute of Mathematics)
Stability methods and extremal graph theory
- 10:00–10:15 *Coffee Break*
- 10:15–11:05 **Zoltan Furedi** (University of Illinois at Urbana-Champaign)
Unavoidable subhypergraphs: α -clusters Applications of the delta system method
- 11:15–11:30 *Break*
- 11:30–12:20 **Jacques Verstraete** (University of California, San Diego (UCSD))
Extremal problems for cycles in graphs
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Gabor Tardos** (Simon Fraser University)
Limits of trees
- 3:30–4:00 *Break*
- 4:00–4:50 **Ervin Gyori** (Renyi Institute of Mathematics)
Graph and Hypergraph Extremal Problems Related to Cycles

Friday November 6, 2009

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Tomasz Luczak** (Adam Mickiewicz University)
On the structure of H -free dense graphs
- 10:00–10:15 *Coffee Break*
- 10:15–11:05 **Imre Leader** (University of Cambridge)
Absolute Values of Sumsets
- 11:15–11:30 *Break*
- 11:30–12:20 **Stephan Thomasse** (Université des Sciences et Techniques de Languedoc (USTL) (Montpellier II))
Partitioning a graph into a cycle and an anticycle Joint work with Stéphan Bessy

