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# MIGHTY XLVII

November 8, 2008 Illinois Institute of Technology

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All talks are in the Life Sciences Building, IIT Main Campus.

## Morning Schedule

7:45-12:00	Registration		
8:00- 8:30	Coffee		
8:30- 8:40	Opening Remarks, R. Russell Betts, Dean of College of Science and Letters, Room 111		
<b>Invited Talk, Room 111</b>			
8:40- 9:40	Douglas B. West <i>Degree Ramsey and On-Line Degree Ramsey Numbers</i>		
9:40-10:00	Coffee Break		
	<b>Room 121</b>	<b>Room 111</b>	<b>Room 240</b>
10:00-10:20	Bridget Tenner <i>The boolean number of a graph</i>	Tao Jiang <i>Compact topological cliques in sparse graphs</i>	Garry Johns <i>A Survey of Iterated Distance Graphs</i>
10:20-10:40	William Vautaw <i>The Circle Space: Zero-Weighted Cycles in a Weighted, Undirected Graph</i>	Mohit Kumbhat <i>Choosability with separation in complete graphs</i>	Matt Walsh <i>The Paranoid Watchman: a search problem on graphs</i>
10:40-11:00	Nart Shawash <i>Connectivity properties and orientation of generalized Cayley graphs generated by transpositions</i>	David Galvin <i>Is the independent set sequence of the hypercube unimodal?</i>	Paul Wenger <i>The Partial Acquisition Number of Graphs</i>
	Break		
	<b>Room 121</b>	<b>Room 111</b>	<b>Room 240</b>
11:10-11:30	Jian Shen <i>A generalization of the Friendship Theorem</i>	Terry McKee <i>Graphs with complete minimal <math>k</math>-vertex separators</i>	Darin Johnson <i>On the Independent Domination Number of a Random Graph</i>
11:30-11:50	Jeong Ok Choi <i>A decomposition problem of regular hypergraphs</i>	Lou Ibarra <i>The clique-separator graph of a chordal graph</i>	Suil O <i>Balloons, Cut-edges, Matchings, and Total Domination number in Regular Graphs of Odd Degree</i>
11:50-12:10	Kevin Milans <i>Cycle Spectra of Hamiltonian Graphs</i>	Michael D. Barrus <i>The <math>A_4</math>-structure of a graph</i>	Christopher Stocker <i>A bound on the domination number of connected cubic graphs</i>
12:10- 2:10	Lunch (Furama)		

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## Afternoon Schedule

<b>Invited Talk, Room 111</b>			
2:10- 3:10	László Babai <i>Symmetry, Hadwiger number, pointwise limit of graphs</i>		
3:10- 3:30	Coffee Break		
	<b>Room 121</b>	<b>Room 111</b>	<b>Room 152</b>
3:30- 3:50	Hao Li <i>Group Colorability of Multi-graphs</i>	Yanting Liang <i>On <math>s</math>-Hamiltonian-connected line graphs</i>	Andrew Lyons <i>Complexity of Optimal Accumulation of Partial Derivatives on DAGs</i>
3:50- 4:10	Christine Cheng <i>Counting as an efficient method for computing the distinguishing and distinguishing chromatic numbers of graphs</i>	Yehong Shao <i>Connectivity and Minimum Degree of Iterated Line Graphs</i>	Gregory Puleo <i>Environmental Evolutionary Graph Theory</i>
4:10- 4:30	W. Doug Weakley <i>Fixing sets and resolving sets for the rook's graph</i>	Huiya Yan <i>Bounded number of components of 2-factors in line graphs</i>	Glenn Harris <i>Spinor Components and Graph Theory</i>
	Break		
	<b>Room 121</b>	<b>Room 111</b>	<b>Room 152</b>
4:40- 5:00	Peter Hamburger <i>Destroying cycles in digraphs</i>	John Maharry <i>Unavoidable Minor Structures in Large Graphs</i>	Mustafa Atici <i><math>(n, n + k)</math>-Graphs that maximize the Integrity for small <math>k</math></i>
5:00- 5:20	Robert (Chip) Vandell <i>Connected Decycling</i>	John Steinberger <i>An unavoidable set of <math>D</math>-reducible configurations</i>	Andrew M Schwartz <i><math>H</math>-Matchable Trees: Degree and Distance Distribution</i>
5:20- 5:40		Despina Stasi <i>A criterion for embeddability in the projective plane</i>	Eddie Cheng <i>A generating function approach to the surface area of some interconnection networks.</i>
5:40- 6:00		Josh Lambert <i>Finding a Biplanar Imbedding of <math>C_n \times C_n \times C_l \times P_m</math></i>	Le Anh Vinh <i>Finite Euclidean and non-Euclidean graphs</i>