

Co-ordinated discrete mathematics sessions

AMS Spring Central Sectional Meeting, Bloomington IN

April 1–2, 2017

Three special sessions,

- *Extremal Problems in Graphs, Hypergraphs and Other Combinatorial Structures* (Amin Bahmanian & Theodore Molla)
- *Probabilistic Methods in Combinatorics* (Patrick Bennett & Andrzej Dudek)
- *Topics in Extremal, Probabilistic and Structural Graph Theory* (John Engbers & David Galvin)

are co-ordinating this weekend to create a mini-conference with parallel sessions and three 45-minute plenary lectures. This sheet gives a quick reference guide to the 36 talks involved. It also lists the two AMS invited talks, and the Einstein public lecture. The rooms for the co-ordinated sessions plenary lectures are subject to change — look out for announcements on Saturday morning.

SATURDAY AM

	Ballantine BH003	Ballantine BH015	Ballantine BH005
8.30am	Kevin Milans <i>Graph 2-rankings</i>	Xavier Pérez-Giménez <i>Rainbow perfect matchings and Hamilton cycles in the random geometric graph</i>	Michael Santana <i>Strong edge-coloring graphs with maximum degree four</i>
9.00am	Andrew Wagner <i>Stitched Together: Finding an Euler Tour in Triple Systems</i>	Sean English <i>Large Monochromatic Components in Sparse Random Hypergraphs</i>	Cory Palmer <i>Deranged Matchings</i>
9.30am	Robert Krueger <i>Hamiltonicity in k-Partite Graphs</i>	David E. Speyer <i>Large colored sum-free sets meeting the Ellenberg and Gijswijt upper bounds</i>	Hemanshu Kaul <i>Criticality, List Color Function, and Chromatic-choosable Cartesian Products of Graphs</i>
10.00am	Steve Butler <i>Recovering permutations over a deletion channel</i>	Deepak Bal <i>Improved analysis of the Karp-Sipser algorithm on random graphs with a prescribed degree sequence</i>	Daniel Cranston <i>List-coloring Claw-free Graphs with $\Delta - 1$ Colors</i>

10.30am, co-ordinated sessions plenary lecture: Xingxing Yu, *On judicious bipartitions of graphs*, **Ballantine BH003**

11.40am, **AMS Invited Address**: Sarah C. Koch, *Postcritical sets in complex dynamics*, **Ballantine BH109**

SATURDAY PM

2.00pm, **AMS Invited Address:** Ciprian Demeter, *Decouplings and applications: a journey from continuous to discrete*, **Ballantine BH109**

	Ballantine BH003	Ballantine BH015	Ballantine BH005
3.00pm	Michelle Delcourt <i>Intersecting Families of Permutations</i>	Florian Pfender <i>Clique Degrees in Random Graphs</i>	Louis DeBiasio <i>Infinite graph-Ramsey theory</i>
3.30pm	Laszlo Szekely <i>On different "Middle parts" of a tree</i>	Sonja Petrovic <i>Discrete methods for statistical network analysis</i>	Csaba Biro <i>Coloring units disk graphs is probably quite hard</i>

4.00pm, **co-ordinated sessions plenary lecture:** Alan Frieze, *Minors of a random binary matroid*, **Ballantine BH015**

5.15pm, **Einstein Lecture:** Richard Evan Schwartz, *Modern scratch paper: Graphical explorations in geometry and dynamics*, **Woodburn WH100**

SUNDAY AM

	Ballantine BH003	Ballantine BH015	Ballantine BH005
8.30am	Neal Bushaw <i>The Even Cycle Spectrum of Dense Graphs</i>	Michael Anastos <i>Coloring directed Hamilton cycles online</i>	Catherine Erbes <i>Stability of the Potential Function</i>
9.00am	Ryan R. Martin <i>The Saturation Number of Induced Subposets of the Boolean Lattice</i>	Hao Huang <i>Biclique partition number of random graphs</i>	Kevin Milans <i>Online coloring blowups of a known graph</i>
9.30am	Jessica McDonald <i>The list chromatic index of simple graphs whose odd cycles intersect in at most one edge</i>	Karen Gunderson <i>Small percolating sets in bootstrap percolation</i>	Lauren Keough <i>An Extremal Question for the Lights Out Game</i>
10.00am	Bernard Lidický <i>Independent sets near the lower bound in bounded degree graphs</i>	Jamie Radcliffe <i>The Friendship Paradox and Homomorphism Counting Inequalities</i>	Hoi Huu Nguyen <i>Eigenvalue repulsion and eigenvector delocalization in adjacency matrices of random graphs</i>

10.30am, **co-ordinated sessions plenary lecture:** Po-Shen Loh, *Induced Turán numbers*, **Ballantine BH003**

SUNDAY PM

	Ballantine BH003
1.00pm	Sadegheh Haghshenas <i>Decomposition of complete uniform hypergraphs into Berge m-cycles</i>
1.30pm	Anton Bernshteyn <i>Sharp Dirac's Theorem for DP-Critical Graphs</i>