The Combinatorics Seminar

FALL 2012

Best Viewed With Any Browser

Directions to the department.

Organizers: Laura Anderson, Eric Swartz, and Thomas Zaslavsky.

- **Tuesday, September 4**
  Organizational meeting
  Time: 1:15 - 1:45
  Room: LN-2205
- **—- Special Announcement —-**
  - **Weekly Study Seminar on Matroid Theory**
    Time: Wed., 3:30 - 4:30, beginning **Wed., Sept. 5**
    Room: LN-2206
    All are invited. This will be a very elementary introduction to the basics of matroids, based on James Oxley, Matroid Theory, second edition. Zaslavsky hopes to teach a course on matroid theory in the spring; this could be (optional) preparation for it.
- **Tuesday, September 11**
  Speaker: Alex Schaefer (Binghamton)
  Title: Realizing Directed Graphs by Dice
  Time: 1:15 - 2:15
  Room: LN-2205
- Saturday, September 15
  DISCRETE MATHEMATICS DAYS OF THE NORTHEAST
  At the Bread Loaf Campus of Middlebury College. Information.
  All interested persons are invited. Preregistration is requested so enough lunches will be available.
- **Tuesday, September 18**
  Holiday: No seminar.
- **Tuesday, September 25**
  Speaker: Matt Brin (Binghamton)
  Title: Groups and Map Colorings
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, October 2**
  Speaker: Simon Joyce (Binghamton)
  Title: The Conjectures of R. Thomas on Gene Regulatory Networks
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, October 9**
  No seminar today; the scheduled talk has been cancelled.

- **Tuesday, October 16**
  Speaker: Simon Lepkin (Binghamton)
  Title: Extended Gale-Shapley Algorithm for Stable Many-Many Matchings
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, October 23**
  Speaker: Eric Swartz (Binghamton)
  Title: Locally 3-Arc-Transitive Covers of Complete Bipartite Graphs
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, October 30**
  Speaker: Ed Swartz (Cornell)
  Title: Manifold Complexity and Face Enumeration
  Time: 1:15 - 2:15
  Room: LN-2205
- Saturday, November 3
  GRAPH THEORY DAY 64
  Stevens Institute of Technology, Hoboken, New Jersey
- **Tuesday, November 6**
  Speaker: Neil Spalter (Binghamton)
  Title: Orthogonal Latin Squares of Order 6
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, November 13**
  Speaker: Alex Schaefer (Binghamton)
  Title: Introduction to Phylogenetic Combinatorics
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, November 20**
  Speaker: Kaitlin Reissig (Binghamton)
  Title: Stanley's Theorem on Acyclic Orientations and Colorings of Graphs
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, November 27**
  Speaker: Michael Fink (Binghamton)
  Title: Network Theory and Signal Processing
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, December 4**
  Speaker: Jackie Kaminski (Binghamton)
  Title: Classification of Factored Gain-Graphic Arrangements
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, December 11**
  Speaker: Amanda Ruiz (Binghamton)
  Title: Realization Spaces of Phased Matroids

Time: 1:15 - 2:15
Room: LN-2205 Phased matroids are combinatorial objects, recently defined by Anderson and Delucchi, that play the same role for complex vector spaces as oriented matroids do for real vector spaces. A phased matroid is a matroid with additional structure that generalizes orientation. According to Mnëv's Universality Theorem, for those phased matroids which are complexified oriented matroids, the realization space can be arbitrarily complicated. In contrast, for most other phased matroids, the realization space is remarkably simple. I will focus on the rank-3 case to demonstrate some properties of, and proofs about, phased matroids.

Past Semesters:

Spring 2012	Fall 2011	Spring-Summer 2011	Fall 2010	Spring-Summer 2010	Fall 2009	Spring-Summer 2009	Fall 2008		
Spring 2008	Fall 2007	Spring 2007	Fall 2006	Spring 2006	Fall 2005	Spring 2005	Fall 2004	Spring 2004	Fall 2003
Spring 2003	Fall 2002	Spring 2002	Fall 2001	Spring 2001	Fall 2000	Spring 2000	Fall 1999	Spring 1999	Fall 1998

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