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: <u>Realizing Directed Graphs by Dice</u> 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: <u>Manifold Complexity and Face Enumeration</u> 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: <u>Stanley's Theorem on Acyclic Orientations and Colorings of Graphs</u> 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: <u>Classification of Factored Gain-Graphic Arrangements</u> Time: 1:15 - 2:15 Room: LN-2205

Tuesday, December 11

Speaker: Amanda Ruiz (Binghamton) Title: Realization Spaces of Phased Matroids

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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:

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

Departmental home page.

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