The Combinatorics Seminar

FALL 2008

Best Viewed With Any Browser

Directions to the department.

Organizers: Emanuele Delucchi, and Thomas Zaslavsky.

The usual day, time, and place are:

Tuesdays, 1:15 - 2:15, in

Room **LN-2205**,

with coffee, tea, and cookies at 3:45 in the Anderson Room, LN-2207.

Some meetings will be at other times, e.g., when joint with other seminars.

This semester we will have several talks on **non-crossing partitions**. Here is the link to a short bibliography, including papers that will be presented. Here are links to a first list and second list of relevant papers with reviews (there is overlap with the short bibliography).

- **Tuesday, September 2**
  Organizational Meeting (all should come)
  + chat with
  Speaker: Thomas Zaslavsky (Binghamton)
  Title: Fun at Summer Conferences
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, September 9**
  Speaker: Emanuele Delucchi (Binghamton)
  Title: Finite Reflection Groups, Non-Crossing Partitions, and a Theorem of Deligne
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, September 16**
  Speaker: Thomas Zaslavsky (Binghamton)
  Title: Quasigroups via Graphs
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, September 23**
  Speaker: Ed Swartz (Cornell)
  Title: Three Complexes
  Time: 1:15 - 2:15

Room: LN-2205

- **Tuesday, September 30**
  Holiday; no meeting.
- **Tuesday, October 7**
  Speaker: Thomas Zaslavsky (Binghamton)
  Title: Tutte Functions of Matroids
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, October 14**
  Speaker: Garry Bowlin (Binghamton)
  Title: Non-Crossing Partitions, I
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, October 21**
  Speaker: Garry Bowlin (Binghamton)
  Title: Non-Crossing Partitions, II
  Time: 1:15 - 2:15
  Room: LN-2205
- **Wednesday, October 29 (Special day)**
  Speaker: Laura Anderson (Binghamton)
  Title: Representation of Matroids by Homotopy Spheres
  Time: 2:20 - 3:20 **(Special time)**
  Room: LN-2205
- **Tuesday, November 4**
  No meeting today – Election day.
- **Tuesday, November 11**
  Speaker: Nate Reff (Binghamton)
  Title: The Lattice of Non-Crossing Partitions
  Time: 1:15 - 2:15
  Room: LN-2205
- **Thursday, November 13 (Colloquium)**
  Speaker: Joanna Ellis-Monaghan (St. Michael's College)
  Title: The Tutte Polynomial and Potts Model in Statistical Mechanics
  Time: 4:30 - 5:30
  Room: LN-2205
- **Friday, November 14 (Special day)**
  Speaker: Joanna Ellis-Monaghan (St. Michael's College)
  Title: Multivariable Tutte and Transition Polynomials
  Time: 2:20 - 3:20 **(Special time)**
  Room: LN-2205
- **Tuesday, November 18**
  Speaker: Jackie Kaminski (Binghamton)
  Title: Regular Non-Crossing Partitions
  Time: 1:15 - 2:15
  Room: LN-2205
- **Tuesday, November 25 (joint with the Algebra Seminar)**

Speaker: Thomas Zaslavsky (Binghamton)
Title: Graphic Matrices Over a Group
Time: 1:15 - 2:15
Room: LN-2205

- **Tuesday, December 2 (joint with the Algebra Seminar)**
Speaker: Simon Joyce (Binghamton)
Title: The Symmetric Group and Non-Crossing Partitions
Time: 1:15 - 2:15
Room: LN-2205 I will define a poset relation on the symmetric group S_n, which gives a natural order-preserving function from S_n to the lattice of partitions. If we restrict our attention to elements in S_n under a particular n-cycle, we have a lattice which is isomorphic to the lattice of non-crossing partitions. If time permits I'll talk about some of the implications. This work is based on a paper by Thomas Brady.
- **Tuesday, December 9**
Speaker: Lucas Rusnak (Binghamton)
Title: A Multidirected Hypergraph Representation of Matrices with 0, 1, −1 Entries, Part I
Time: 1:15 - 2:15
Room: LN-2205 A multi-directed hypergraph is a combinatorial representation of {0, +1, −1}-matrices that extends the concepts of signed graphs to hypergraphic analogs. I will discuss their discovery and development from hypergraphic matrices and the problems in extending the signed-graphic treatment of the classification of column dependencies.
- **Tuesday, December 16**
Speaker: Lucas Rusnak (Binghamton)
Title: A Multidirected Hypergraph Representation of Matrices with 0, 1, −1 Entries, Part II
Time: 2:50 - 3:50 **(Special time)**
Room: SW-231 **(Special room)** A multi-directed hypergraph is a combinatorial representation of {0, +1, −1}-matrices that extends the concepts of signed graphs to hypergraphic analogs. I will discuss their discovery and development from hypergraphic matrices and the problems in extending the signed-graphic treatment of the classification of column dependencies.

Past Semesters: 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

Departmental home page.
