

# The Combinatorics Seminar

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## FALL 2008

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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.

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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.

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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](#)

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