

# 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.](#)

---

From:

<http://www2.math.binghamton.edu/> - **Department of Mathematics and Statistics, Binghamton University**

Permanent link:

<http://www2.math.binghamton.edu/p/seminars/comb/f08>



Last update: **2020/01/29 19:03**

