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# **The Combinatorics Seminar**

# **FALL 2009**

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Directions to the department.

Organizers: Laura Anderson, Emanuele Delucchi, and Thomas Zaslavsky.

## Tuesday, September 1

Organizational Meeting Time: 1:15 - 2:00 Room: LN-2205

## **Tuesday, September 8**

Speaker: Lucas Rusnak (Binghamton)

Title: Oriented Incidence and a Generalization of Hypergraphs: An Introduction

Time: 1:15 - 2:15 Room: LN-2205

## Tuesday, September 15

Speaker: Lucas Rusnak (Binghamton)

Title: Oriented Incidence and a Generalization of Hypergraphs: Balance and Dependency

Time: 1:15 - 2:15 Room: LN-2205

#### **Tuesday, September 22**

Speaker: Thomas Zaslavsky (Binghamton)

Title: Psycho-Graph Math on Two-Mode Signed Networks

Time: 1:15 - 2:15 Room: LN-2205

### **Tuesday, September 29**

Speaker: Amanda Ruiz (Binghamton)

Title: When Do Two Planted Graphs Have the Same Cotransversal Matroid?

Time: 1:15 - 2:15 Room: LN-2205

## Tuesday, October 6 (joint with the Geometry and Topology Seminar)

Speaker: Priyavrat Deshpande (Western Ontario)

Title: Arrangements of Submanifolds and the Tangent-Bundle Complement

Time: 1:15 - 2:15 Room: LN-2205

## Tuesday, October 13 (joint with the Geometry and Topology Seminar)

Speaker: Max Wakefield (Annapolis)

Title: Topological Formality of Arrangements of Subspaces Derived from Edge-Colored Hypergraphs

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Time: 1:15 - 2:15 Room: LN-2205

## Tuesday, October 20

Speaker: Tom Head (Binghamton)

Title: Computing Transparently: The Independent Sets in a Graph

Time: 1:15 - 2:15 Room: LN-2205

## Tuesday, October 27

Speaker: Emanuele Delucchi & Laura Anderson (Binghamton)

Title: Complex Matroids
Time: 1:15 - 2:15
Room: LN-2205

## **Tuesday, November 3**

Speaker: Nate Reff (Binghamton)

Title: Extensions of Spectral Graph Theory

Time: 1:15 - 2:15 Room: LN-2205

## **Tuesday, November 10**

Speaker: Caroline Klivans (Chicago and Cornell)

Title: A Geometric Interpretation of the Characteristic Polynomial of a Hyperplane Arrangement

Time: 1:15 - 2:15 Room: LN-2205

# Tuesday, November 17 (joint with the Algebra and Number Theory Seminars)

Speaker: Justin Lambright (Lehigh)

Title: A Combinatorial Interpretation for Computations in the Quantum Polynomial Ring

Time: 1:15 - 2:15 Room: LN-2205

## Tuesday, November 24 (joint with the Algebra and Number Theory Seminars)

Speaker: Matthias Beck (San Francisco State University)

Title: Symmetrically Constrained Compositions of an Integer

Time: 1:15 - 2:15 Room: LN-2205

## Tuesday, December 1

Speaker: Lucas Sabalka (Binghamton)
Title: Graph Braid Groups [Cancelled]

Time: 1:15 - 2:15 Room: LN-2205

#### **Tuesday, December 8**

Speaker: Simon Joyce (Binghamton)

Title: The Sum of Squares of Degrees in a Graph

Time: 1:15 - 2:15 Room: LN-2205

### Friday, December 18 (Special time)

Speaker: Lucas Rusnak (Binghamton)
Title: Oriented Hypergraphs, Parts I & II

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Time: 10:30 - 11:30 and 1:00-2:00

Room: LN-1120 (Note special room.)

These lectures are the Ph.D. thesis defense of Mr. Rusnak. His examining committee is Laura Anderson, Gerard Cornuejols (Carnegie-Mellon), Marcin Mazur, and Thomas Zaslavsky (chair).

Everyone is welcome to attend.

Past Semesters: Spring 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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