

Geometry Seminar
Tuesday, Feb 10, 2009
Room 317 WWH at 6:00 P.M.

Multi-Directed Hypergraph Representations of $\{0, +1, -1\}$ -Matrices.

Lucas Rusnak
Binghamton University, SUNY.

A multi-directed hypergraph is a combinatorial representation of a $\{0, +1, -1\}$ -matrix that extends the concepts of signed graphs to hypergraphic analogs. The column dependencies of a $\{0, +1, -1\}$ -matrix can be classified using multi-directed hypergraphs. The classification of column dependencies of matrices corresponding to multi-directed hypergraphs whose edge size is two or less is already known. I will discuss the basic structure of multi-directed hypergraphs and the classification of the column dependencies of any $\{0, +1, -1\}$ -matrix.

For more information please visit the seminar website at:
http://www.math.nyu.edu/seminars/geometry_seminar.html.