## **Craig Defelice (Binghamton)**

## **Lattice Path Matroids**

## Abstract for the Combinatorics Seminar 2013 May 15

Lattice path matroids are matroids based on paths in the square lattice. They form an especially nice subclass of transversal matroids. I will go over some of their interesting properties of lattice path matroids, such as duality, connectivity, deletion, etc. Time permitting, I will briefly discuss the Tutte polynomials of said matroids, with an algorithm to compute the Tutte polynomials.

This talk is based on the paper "Lattice Path Matroids" by Joseph Bonin.

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