# Combinatorics Seminar

## *Recent progress on diamond-free families*

Ryan Martin
Iowa State University

**Abstract:** In the Boolean lattice, a diamond is a subposet of four distinct subsets $A, B, C, D$ such that $A \subset B, C$ and $D \supset B, C$. One of the most well-studied problems in extremal poset theory is determining the size of the largest diamond-free family in the $n$-dimensional Boolean lattice. We will discuss some recent progress on this problem.

Monday, March 23, 2015, 4:00 pm
Mathematics and Science Center: W302

Mathematics and Computer Science
Emory University