

GRATKO Seminar

Time: 5:30 PM, Tuesday, November 12, 2013

Location: 130 Solon Campus Center, UMD

Speaker: Ondrej Zjevik (University of Minnesota Duluth)

Title: On Symmetric Chain Decomposition of Partially Ordered Sets

Abstract:

A partially ordered set (poset) can be seen as a directed graph, where the direction of an edge follows ordering. In my talk I will discuss similarity between Sperner property and symmetric chain decomposition for a poset. I will introduce posets where a symmetric chain decomposition always exists and a few posets for which it was just conjectured that such a decomposition exists. An algorithm for finding a symmetric chain decomposition for any poset will be given and its performance on S_n , the set of permutations of $(a_1, a_2, a_3, \dots, a_n)$, for $n \leq 11$ as well as performance on different posets will be discussed.