

Discrete Mathematics Seminar

Time: Friday, 18 October 2013, 1:00 – 2:00 PM

Location: 238 Derrick Hall

Title: Prime factorization in the generalized hierarchical product

Speaker: Kirsti Wash, Mathematics Department, Clemson University

Abstract:

In 2008, Barrière et al. introduced the generalized hierarchical product of graphs. This is a generalization of the Cartesian product of graphs in that we can represent a particular Cartesian product as a generalized hierarchical product. It is known that every connected graph has a unique prime factor decomposition with respect to the Cartesian product. In this talk, we generalize this result to show that connected graphs indeed have a unique prime factor decomposition with respect to the generalized hierarchical product. This is joint work with Sarah Anderson of Clemson University.