Department of Mathematics and Statistics Colloquium
Student Research Presentations

The Critical Group of $KG_{n,2}$

Ian Hill

Abstract: Let $KG_{n,k}$ denote the graph with vertices being the subsets of length k of a set of length n, where two vertices are adjacent if they are disjoint. This is the Kneser graph. We will look at the critical group of $KG_{n,2}$ and show a combinatorial approach to prove that a set of configurations of the graph generates the group.

Dimension Reduction of Gene Expression Data

Jaylen Lee

Abstract: This study compares elastic net regression models to principal component regression, supervised principal component regression, Y-aware principal component regression, and partial least squares regression models and their ability to predict tissue age based on DNA methylation levels.

Wednesday, December 7 at 3:45 in Roop 103

refreshments at 3:30