

Combinatorics Seminar

Speaker:

**Matthew Sullivan
Memorial University**

Wednesday, February 26

2:00 p.m., HH-3017

A Decycling Game and Decycling Planar Graphs

Abstract:

A decycling set D of a graph G is a set of vertices from the vertex set of G whose removal leaves the remaining graph cycle free. Given a positive integer k and a graph G deciding whether there exists a decycling set $D \subset V(G)$ such that $|D| \leq k$ is an NP-Complete decision problem. In this talk, we will be looking at the decycling set problem for planar graphs and a decycling game will be introduced.