
MELISSA HUGGAN, Mount Allison University

A partizan deletion game

This game is played on a graph with coloured edges. There are two players who alternately delete edges of their assigned colour; blue for Left and red for Right. A player gains a point for every vertex that they isolate. This is a partizan version of the game called "Le Pic Arête".

In this talk, we will discuss progress on solving this game for paths. We present reductions that break down any path into a disjunctive sum of purely alternating paths, waiting moves, and a score. From here, we will discuss good moves and how to compute the score of the game. This is joint work with Michael H. Albert and Richard J. Nowakowski.