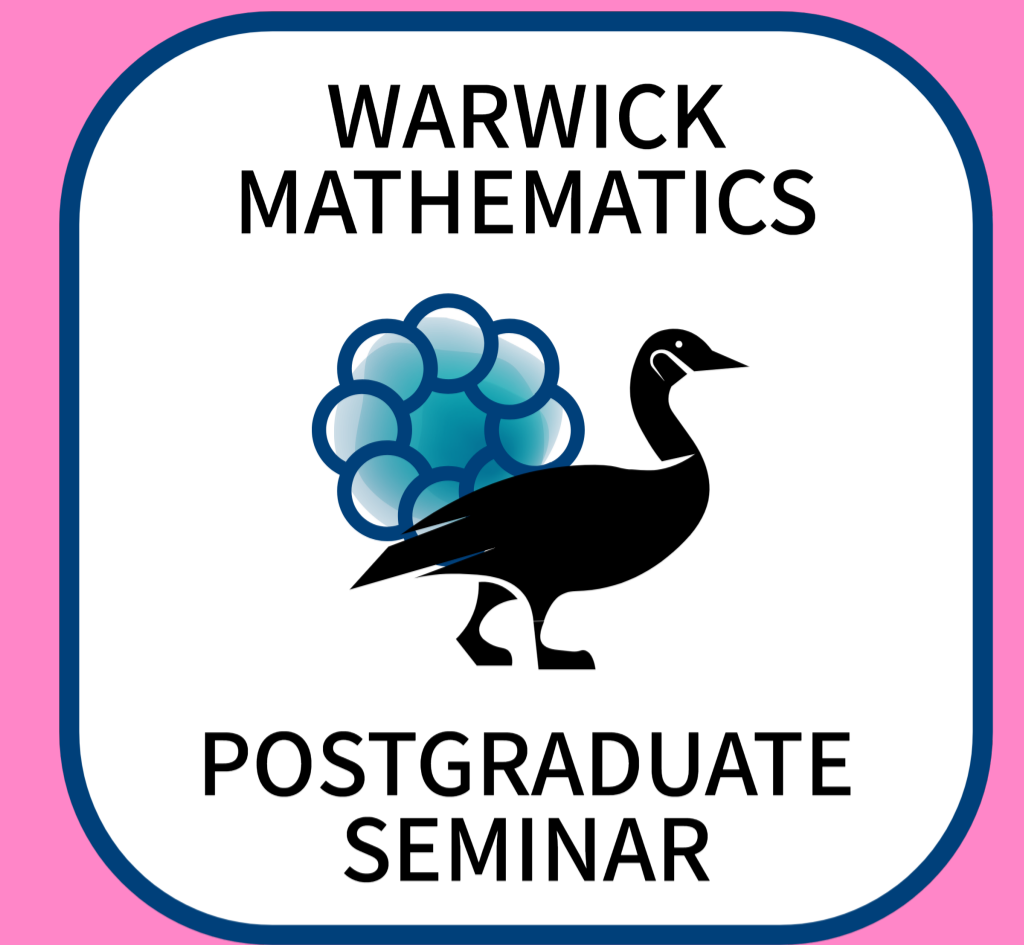


What is tropical geometry?

Hamdi Dërvodeli

Week 4 - Term 3



Abstract

The aim of this talk is to introduce tropical varieties, which are the main objects of study of tropical geometry. We give examples and describe how to construct them. They can be thought of as combinatorial shadows of classical varieties in algebraic geometry that sometimes preserve important information. This makes our lives easier because we are often able to understand valuable information about our original varieties by only looking at their shadows.

If time permits, we will mention another connection of tropical varieties with matroids. This is a useful link not only because matroids generalize graphs and linear subspaces, but also because they know about tropical varieties.

Time

12 pm, 17th
May 2023

Location

Room B3.02

Organisers

Alvaro Gonzalez Hernandez
Katerina Santicola