



Topology Seminar at Texas State

Speaker: Andrew Newman (Carnegie Mellon)

Title: Phase transitions in the fundamental group of random flag complexes

When: Friday, Apr. 8, 11:00 a.m.– 11:50 a.m.

Where: Online. Zoom info at bottom of page.

Abstract

A random flag complex is the flag closure (equivalently the clique complex) of an Erdős–Rényi random graph. In this talk we'll overview local-to-global techniques, originally established by Gromov, that have been used very effectively in the past to prove results about the structure of the fundamental group of random flag complexes. We will then discuss new applications of these techniques, and others, to provide bounds on the sharp threshold for the fundamental group of a random flag complex to go from free to nonfree.

Zoom Information

Meeting URL: [Click here.](#)

Meeting ID: 922 5921 7572

Password: manifolds