

Slippery Rock University
Department of Mathematics and Statistics

Presents

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“Fibonacci groups and fixed points”

Abstract

A group is said to be cyclically presented if it admits a presentation with a certain cyclic symmetry. Such a symmetry induces a periodic automorphism of the group called the shift, and its dynamics strongly impacts the structure of the group. In this talk, we investigate the shift dynamics of the cyclically presented groups of Fibonacci type. These groups have a rich history and have been studied from a variety of different perspectives, from combinatorial group theory to 3-manifold topology. We use these perspectives to study the shift and go on to introduce topological and computational techniques for identifying fixed points.

Tuesday, September 14th

12:30 p.m.

VSC 205

Students are welcome!