



**BGSU**

Department of  
**Mathematics and  
Statistics**

**BOWLING GREEN STATE UNIVERSITY**

**Weekly Calendar – Fall Semester 2024  
Week 15 – December 2 – December 7**

<p><b>Monday, December 2</b></p>	<p><b>Putnam Meeting</b> 11:30am – 12:20pm, McLeod Hall 459</p> <p><b>Statistics Seminar</b> 11:30am – 12:30pm, McLeod Hall 400 Topic: AI-Innovation in Statistics and Simultaneous Inference Speakers: Jeremiah Allis, John Chen, Yahang Zheng</p> <p><b>Advisory Committee</b> 1:30pm – 2:30pm, McLeod Hall 400</p>
<p><b>Tuesday, December 3</b></p>	<p><b>Graduate Student Seminar</b> 11:30am – 12:00pm, McLeod Hall 459 Speaker: Ayako Carter Title: Elementary Proofs for the First Fundamental Theorem for <math>GL_2(K)</math> and <math>SL_2(K)</math></p> <p><b>Peer Mentors Leaders Meeting</b> 12:30pm – 1:30pm, McLeod Hall 459</p> <p><b>Geometry and Topology Seminar</b> 2:30pm – 3:30pm, zoom link TBA Speaker: Annette Karrer, Ohio State University Title: Connected Components in Morse Boundaries of Right-Angled Coxeter Groups</p> <p><b>Foundational Math Committee</b> 3:30pm – 4:20pm, McLeod Hall 459</p>
<p><b>Wednesday, December 4</b></p>	
<p><b>Thursday, December 5</b></p>	<p><b>Graduate Committee</b> 10:00am – 11:00am, McLeod Hall 400</p>
<p><b>Friday, December 6</b></p>	<p><b>Analysis Reading Seminar</b> 11:30am – 12:30pm, McLeod Hall 459 Speaker: Kit Chan Title: A Simple Condition for Hypercyclic Composition on the Upper Half-Plane</p>
<p><b>Saturday, December 7</b></p>	<p><b>Preview Day</b> 8:30am – 12:00pm, BTSU 308</p> <p><b>Putman Exam</b> 9:30am – 6:30pm, McLeod Hall 459</p>

## ABSTRACT

### Geometry and Topology Seminar

**Title:** Connected Components in Morse Boundaries of Right-Angled Coxeter Groups

**Abstract:** Every finitely generated group  $G$  has an associated topological space, called a Morse boundary, that captures the hyperbolic-like behavior of  $G$  at infinity. It was introduced by Cordes generalizing the contracting boundary invented by Charney--Sultan.

In this talk, we study subgroups arising from connected components in Morse boundaries of right-angled Coxeter groups and of such that are quasi-isometric to right-angled Coxeter groups. This talk is based on two projects. One is joint work with Bobby Miraftab and Stefanie Zbinden. The other one is joint work in progress with Matthew Cordes and Kim Ruane.