



BGSU

Department of
**Mathematics and
Statistics**

BOWLING GREEN STATE UNIVERSITY

**Weekly Calendar – Fall Semester 2024
Week 11 – November 4 – November 8**

Monday, November 4	Putnam Meeting 11:30am – 12:20pm, McLeod Hall 459 Advisory Committee 1:30pm – 2:30pm, McLeod Hall 400
Tuesday, November 5	Graduate Student Seminar 11:30am – 12:30pm, McLeod Hall 459 Speaker: Eric Montoya Title: Primer to Analytic Number Theory Peer Mentor Leaders Meeting, 12:30pm – 1:30pm, McLeod Hall 459 Geometry and Topology Seminar 2:30pm – 3:30pm, zoom link TBA Speaker: Sam Hughes, Bonn University Title: On Finite Quotients of Discrete Groups Foundational Math Committee 3:30pm – 4:20pm, McLeod Hall 459
Wednesday, November 6	Peer Mentor Meetings 3:30pm – 4:20pm, McLeod Hall 459, 400 & 340 Undergraduate Committee 4:30pm – 5:20pm, McLeod Hall 400
Thursday, November 7	Peer Mentor Meeting 4:00pm – 4:50pm, McLeod Hall 400
Friday, November 8	Analysis Reading Seminar 11:30am – 12:30pm, McLeod Hall 459 Speaker: Abraham Orinda Title: Ergodic Theory and Linear Dynamics, Part 3

ABSTRACT

Geometry and Topology Seminar

Title: On Finite Quotients of Discrete Groups

Abstract: In this talk I will survey a number of recent results regarding (relative) profinite rigidity of certain groups (3-manifold groups, Coxeter groups, free-by-cyclic groups, Kaehler groups). Here profinite rigidity asks how much of information about a finitely generated residually finite group can be recovered from its finite quotients. From an algebraic geometry viewpoint this is essentially asking when the algebraic fundamental group determines an aspherical projective variety up to biholomorphism (assuming residual finiteness of the topological fundamental group). Much of the input will come from developments around the world of 3-manifold topology, building on the Virtual Fibring Theorem of Agol. With this in hand (and time permitting) I will discuss work of Wilton—Zalesskii, Wilkes, and Liu on rigidity amongst 3-manifold groups, work of myself and Kudlinska on rigidity amongst free-by-cyclic groups, and work of myself, Llosa Isenrich, Py, Spitler, Stover, and Vidussi on rigidity amongst Kaehler groups.