

THE COLLEGE OF SCIENCES AND MATHEMATICS &  
THE R. W. YEAGY COLLOQUIUM PRESENT:

# Finiteness Properties by Way of Geometry

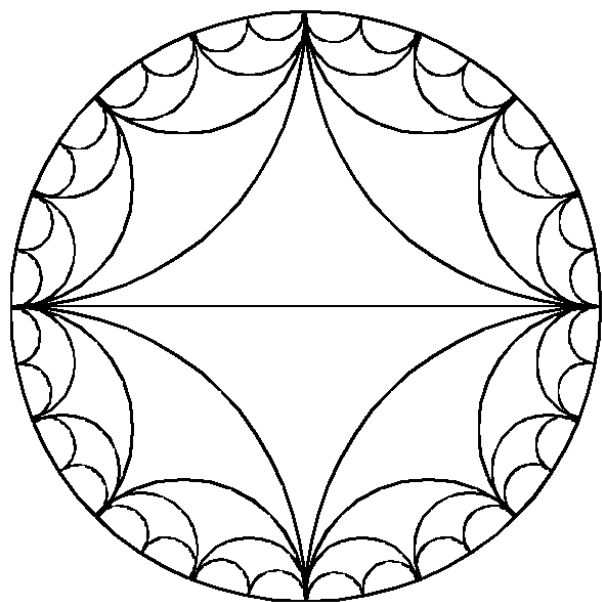
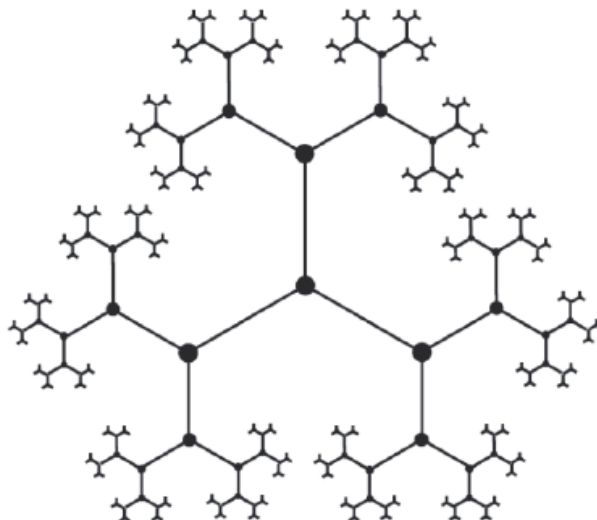
**Dr. Sarah Cobb**

Midwestern State University  
Department of Mathematics

Tuesday, October 9th

3:30 PM

Math Building 357



There are many ways to give a notion of size to infinite groups. Some of the most common are the finiteness properties  $F_n$  and  $FP_n$ , which have close ties to the homology of groups. We will examine these finiteness properties from a geometric perspective and apply them to particular linear groups. This talk will be grounded in pictures and examples and should be accessible to anyone familiar with matrix operations.