## Boundaries of CAT(0) Groups with Isolated Flats and The Kapovich-Kleiner Theorem

## Matthew Haulmark

(University of Wisconsin-Milwaukee)

## Abstract

In 2000 Kapovich and Kleiner proved that if G is a one-ended hyperbolic group that does not split over a two-ended subgroup, then the boundary of G is either a Menger curve, a Sierpinski carpet, or a circle. In this talk I will discuss CAT(0) spaces and their boundaries, as well as what it means for a group to be CAT(0). I will also provide a generalization of the Kapovich and Kleiner theorem to the isolated flats setting. This work is the topic of my dissertation under the advisement of G. Christopher Hruska.