

1009-20-204

Kim E. Ruane* (kim.ruane@tufts.edu), Mathematics Department, Bromfield-Pearson Building, Medford, MA 02155. *Groups with specified boundary.*

In this talk, we will explore the following question:

Suppose G acts geometrically on a CAT(0) space X . If the homeomorphism type of the visual boundary of X is known, what can you say about the space X and the group G . For example, if the boundary is homeomorphic to a circle, then X must be either the Euclidean plane in which case G is a Bieberbach group or X is the hyperbolic plane and G is fuchsian. (Received August 16, 2005)