

**YMC2004 TALK ABSTRACT**

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Title: Hypberbolic Isometries on R-trees

Description:

I have been studying free actions by a group on R-trees. The main motivation is a new result by Ilya Kapovich, et al. showing that translation equivalent words in a free group have the same Whitehead graphs under arbitrary group automorphisms. The main focus of my research is on finding words that are translation equivalent. I also attempted at investigating the geometry on R-trees given a group of hyperbolic isometries.