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Approximations of stable actions on \mathbb{R} -trees. (English) Zbl 0979.20026

Comment. Math. Helv. 73, No. 1, 89-121 (1998).

Summary: This article shows how to approximate a stable action of a finitely presented group on an \mathbb{R} -tree by a simplicial one while keeping control over arc stabilizers. For instance, every small action of a hyperbolic group on an \mathbb{R} -tree can be approximated by a small action of the same group on a simplicial tree. The techniques we use highly rely on Rips's study of stable actions on \mathbb{R} -trees and on the dynamical study of exotic components by D. Gaboriau.

MSC:

20E08 Groups acting on trees
20F65 Geometric group theory
57M07 Topological methods in group theory
20F67 Hyperbolic groups and nonpositively curved groups
05C05 Trees

Cited in **20** Documents

Keywords:

stable actions on trees; finitely presented groups; hyperbolic groups; simplicial trees

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