

# SEMI-STABILITY OF AMALGAMATED PRODUCTS, HNN-EXTENSIONS, AND ALL ONE-RELATOR GROUPS

MICHAEL L. MIBALIK AND STEVEN T. TSCHIRANTZ

## 1. INTRODUCTION

Semistability at infinity is a geometric property used in the study of ends of finitely presented groups. If a finitely presented group  $G$  is semistable at infinity, then sophisticated invariants for  $G$ , such as the fundamental group at an end of  $G$ , can be defined (see [10]). It is unknown whether or not all finitely presented groups are semistable at infinity, although by [16] it suffices to know whether all 1-ended finitely presented groups are semistable at infinity. There are a number of results showing many 1-ended groups have this property, e.g., if  $G$  is finitely presented and contains a finitely generated, infinite, normal subgroup of infinite index, then  $G$  is semistable at infinity (see [12] and for other such results [13-15]).

Semistability at infinity is of interest in the study of cohomology of groups; if a finitely presented group  $G$  is semistable at infinity, then  $H^2(G; \mathbb{Z}G)$  is free abelian (see [6, 7]). This is conjectured to be true for all finitely presented groups, but at present it is not even known for 2-dimensional duality groups (where one is discussing the dualizing module, see [2]).

For negatively curved groups (i.e., hyperbolic groups in the sense of Gromov, see [8]), semistability at infinity has additional interesting consequences. If a negatively curved group  $G$  is given the word metric with respect to some finite generating set, then there is a compactification  $\overline{G}$  of  $G$  where a point of  $\partial G = \overline{G} - G$  is a certain equivalence class of proper sequences of points in  $G$ . The boundary of  $G$  is a compact, metrizable, finite-dimensional space, which determines the cohomology of  $G$ . Bestvina and Mess have shown that if  $G$  is a negatively curved group, then for every ring  $R$ , there is an isomorphism of  $RG$ -modules  $H^*(G; RG) \cong H^{n-1}(\partial G; R)$  (Čech reduced). Geoghegan has observed that results in [1] imply that a negatively curved group  $G$  is semistable at infinity iff  $\partial G$  has the shape of a locally connected continuum (see [6]). Furthermore, in [1], ideas closely related to semistability at infinity are used to analyze closed irreducible 3-manifolds with negatively curved fundamental group.

A continuous map is *proper* if inverse images of compact sets are compact. Proper rays  $r, s: [0, \infty) \rightarrow K$  in a locally finite CW-complex  $K$  are said to *converge to the same end* of  $K$  if for every compact  $C \subseteq K$  there exists an  $N$  such that  $r([N, \infty))$  and  $s([N, \infty))$  are contained in the same path component of  $K - C$ . A locally finite

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# Semistability Of Amalgamated Products And Hnn Extensions

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