

SEMISTABILITY 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 ∂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

Ross Geoghegan



Semistability Of Amalgamated Products And Hnn Extensions:

Semistability of Amalgamated Products and HNN-Extensions Michael L. Mihalik, Steven Thomas Tschantz, 1992 In the study of the proper homotopy theory of finitely presented groups semistability at infinity is an end invariant of central importance A finitely presented group that is semistable at infinity has a well defined fundamental group at infinity independent of base ray If G is semistable at infinity then G has free abelian second cohomology with $\mathbb{Z}[G]$ coefficients In this work the authors show that amalgamated products and HNN extensions of finitely presented semistable at infinity groups are also semistable at infinity A major step toward determining whether all finitely presented groups are semistable at infinity this result easily generalizes to finite graphs of groups In an early application this result was used in showing that all one relator groups are semistable at infinity The theory of group actions on trees and techniques derived from the proof of Dunwoody's accessibility theorem are key ingredients in this work *Analytic and Algebraic Geometry* Anil Kumar Aryasomayajula, Indranil Biswas, Archana S. Morye, A. J. Parameswaran, 2017-09-08 This volume is an outcome of the International conference held in Tata Institute of Fundamental Research and the University of Hyderabad There are fifteen articles in this volume The main purpose of the articles is to introduce recent and advanced techniques in the area of analytic and algebraic geometry This volume attempts to give recent developments in the area to target mainly young researchers who are new to this area Also some research articles have been added to give examples of how to use these techniques to prove new results **Topology at Infinity of Discrete Groups** Ross Geoghegan, Craig R. Guilbault, Kim Ruane, 2025-02-07 This volume contains the proceedings of the AMS Special Session on Ends and Boundaries of Groups held in honor of Michael Mihalik's 70th birthday on April 15-16 2023 at the University of Cincinnati Cincinnati Ohio The papers cover current topics in geometric group theory and related topology Four survey papers discuss hyperbolic actions CAT 0 groups Thompson type groups and Z set boundaries Other papers cover new material related to hyperbolic groups Poincaré Duality groups outer automorphism groups right angled Artin groups and mapping class groups Several papers present new results on ends of spaces and related group theory A notable addition intended for readers interested in the interplay of topology and group theory is a self contained detailed exposition of Z sets and their role in geometric group theory Topology and Geometric Group Theory Michael W. Davis, James Fowler, Jean-François Lafont, Ian J. Leary, 2016-09-14 This book presents articles at the interface of two active areas of research classical topology and the relatively new field of geometric group theory It includes two long survey articles one on proofs of the Farrell-Jones conjectures and the other on ends of spaces and groups In 2010-2011 Ohio State University OSU hosted a special year in topology and geometric group theory Over the course of the year there were seminars workshops short weekend conferences and a major conference out of which this book resulted Four other research articles complement these surveys making this book ideal for graduate students and established mathematicians interested in entering this area of research **Topological Methods in Group Theory** Ross

Geoghegan, 2007-12-27 This book is about the interplay between algebraic topology and the theory of infinite discrete groups. It is a hugely important contribution to the field of topological and geometric group theory and is bound to become a standard reference in the field. To keep the length reasonable and the focus clear, the author assumes the reader knows or can easily learn the necessary algebra but wants to see the topology done in detail. The central subject of the book is the theory of ends. Here the author adopts a new algebraic approach which is geometric in spirit. *Extension of Positive-Definite Distributions and Maximum Entropy* Jean-Pierre Gabardo, 1993 In this work the maximum entropy method is used to solve the extension problem associated with a positive definite function or distribution defined on an interval of the real line. Gabardo computes explicitly the entropy maximizers corresponding to various logarithmic integrals depending on a complex parameter and investigates the relation to the problem of uniqueness of the extension. These results are based on a generalization in both the discrete and continuous cases of Burg's maximum entropy theorem. *An Extension of the Galois Theory of Grothendieck* André Joyal, Myles Tierney, 1984 In this paper we compare in a precise way the concept of Grothendieck topos to the classical notion of topological space. The comparison takes the form of a two fold extension of the idea of space. **Extensions of the Jacobi Identity for Vertex Operators, and Standard $A^{\{1\}}_1$ -Modules** Cristiano Husu, 1993 The main axiom for a vertex operator algebra over a field of characteristic zero is the Jacobi identity. It is extended to multi operator identities. Then relative bold capital Z_2 twisted vertex operators are introduced and a Jacobi identity for these operators is established. Then these ideas are used to interpret and recover the twisted bold capital Z operators and corresponding generating function identities developed by Lepowsky and R. L. Wilson. This work is closely related to the twisted parafermion algebra constructed by Zamolodchikov. Fateev. **Loop Groups, Discrete Versions of Some Classical Integrable Systems, and Rank 2 Extensions** Percy Deift, Luen-Chau Li, Carlos Tomei, 1992 The authors show how to interpret recent results of Moser and Veselov on discrete versions of a class of classical integrable systems in terms of a loop group framework. In this framework the discrete systems appear as time one maps of integrable Hamiltonian flows. Earlier results of Moser on isospectral deformations of rank 2 extensions of a fixed matrix can also be incorporated into their scheme. **Continuous Images of Arcs and Inverse Limit Methods** Jacek Nikiel, H. M. Tuncali, E. D. Tymchatyn, 1993 Continuous images of ordered continua are investigated. The paper gives various properties of their monotone images and inverse limits of their inverse systems or sequences with monotone bonding surjections. Some factorization theorems are provided. Special attention is given to one dimensional spaces which are continuous images of arcs and among them various classes of rim finite continua. The methods of proofs include cyclic element theory, T set approximations and null family decompositions. The paper brings also new properties of cyclic elements and T sets in locally connected continua in general.

The Top Books of the Year Semistability Of Amalgamated Products And Hnn Extensions The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Paffen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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