Relative Cohomology and Generalized Tate Cohomology

Bin Yu[1] · Xiaosheng Zhu[2] · Yanbo Zhou[2]

Abstract We compare relative cohomology theories arising from using different proper resolutions of modules. Criteria for the vanishing of such distinctions are given in certain cases, and we show that this is related to the generalized Tate cohomology theory. We also demonstrate that the two balance properties admitted by the two different cohomology theories are actually equivalent in some cases. As applications, we recover many results obtained earlier in various contexts. At last we investigate derived functors with respect to the Auslander and Bass classes.

1 Introduction

The classical homological algebra deals with the derived functors defined by using projective or injective resolutions. This foundation was reformed by Eilenberg and Moore in

Presented by Henning Krause.

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Generalized Tate Cohomology

I.M. James

Generalized Tate Cohomology:

Generalized Tate Cohomology John Patrick Campbell Greenlees,J. Peter May,1995 Let italic capital G be a compact Lie group italic capitals EG a contractible free italic capital G space and let italic capitals E G be the unreduced suspension of italic capitals EG with one of the cone points as basepoint Let italic k over subscript italic capital G be a italic capital G spectrum Let italic capital X denote the disjoint union of italic capital X and a italic capital G fixed basepoint Define the italic capital G spectra italic f italic k over subscript italic capital G italic k over subscript italic capital G up arrowhead symbol italic capitals EG italic c italic k over subscript italic capital G italic capital F italic capitals EG italic k over subscript italic capital G and italic t italic k subscript italic capital G italic capital F italic capitals EG italic k over subscript italic capital G up arrowhead symbol italic capitals E G The last of these is the italic capital G spectrum representing the generalized Tate homology and cohomology theories associated to italic k subscript italic capital G Here italic capital F italic capitals EG italic k over subscript italic capital G is the function space spectrum The authors develop the properties of these theories illustrating the manner in which they generalize the classical Tate Swan theories   Generalized Tate Cohomology Alina Claudia Iacob,2005   Computational and Geometric Aspects of Modern Algebra Michael D. Atkinson,Michael Atkinson,2000-06-15 This book comprises a collection of papers from participants at the IMCS Workshop on Computational and Geometric Aspects of Modern Algebra held at Heriot Watt University in 1998 Written by leading researchers the papers cover a wide range of topics in the vibrant areas of word problems in algebra and geometric group theory This book represents a timely record of recent work and provides an indication of the key areas of future development   *Abelian Groups, Rings, Modules, and Homological Algebra* Pat Goeters,Overtoun M.G. Jenda,2016-04-19 About the book In honor of Edgar Enochs and his venerable contributions to a broad range of topics in Algebra top researchers from around the world gathered at Auburn University to report on their latest work and exchange ideas on some of today s foremost research topics This carefully edited volume presents the refereed papers of the par   **Combinatorial and Geometric Group Theory, Edinburgh 1993** Andrew J. Duncan,N. D. Gilbert,James Howie,1995 The ICMS Workshop on Geometric and Combinatorial Methods in Group Theory held at Heriot Watt University in 1993 brought together some of the leading research workers in the subject Some of the survey articles and contributed papers presented at the meeting are collected in this volume The former cover a number of areas of current interest and include papers by S M Gersten R I Grigorchuk P H Kropholler A Lubotzky A A Razborov and E Zelmanov The contributed articles all refereed range over a wide number of topics in combinatorial and geometric group theory and related topics The volume represents a summary of the state of knowledge of the field and as such will be indispensable to all research workers in the area   *Cohomological Methods in Homotopy Theory* Jaume Aguade,Carles Broto,Carles Casacuberta,2012-12-06 This book contains a collection of articles summarizing the state of knowledge in a large portion of modern homotopy theory A call for articles was made on the occasion of an

emphasis semester organized by the Centre de Recerca Matemtica in Bellaterra Barcelona in 1998 The main topics treated in the book include abstract features of stable and unstable homotopy homotopical localizations p compact groups H spaces classifying spaces for proper actions cohomology of discrete groups K theory and other generalized cohomology theories configuration spaces and Lusternik Schnirelmann category The book is addressed to all mathematicians interested in homotopy theory and in geometric aspects of group theory New research directions in topology are highlighted Moreover this informative and educational book serves as a welcome reference for many new results and recent methods

Gorenstein Homological Algebra Alina Iacob,2018-08-06 Gorenstein homological algebra is an important area of mathematics with applications in commutative and noncommutative algebra model category theory representation theory and algebraic geometry While in classical homological algebra the existence of the projective injective and flat resolutions over arbitrary rings are well known things are a little different when it comes to Gorenstein homological algebra The main open problems in this area deal with the existence of the Gorenstein injective Gorenstein projective and Gorenstein flat resolutions Gorenstein Homological Algebra is especially suitable for graduate students interested in homological algebra and its applications **Geometric and Cohomological Methods in Group Theory** Martin R. Bridson,2009-10-29 An extended tour through a selection of the most important trends in modern geometric group theory Connective Real K-Theory of Finite Groups Robert Ray Bruner,John Patrick Campbell Greenlees,2010 Focusing on the study of real connective K theory including ko BG as a ring and ko_ BG as a module over it the authors define equivariant versions of connective KO theory and connective K theory with reality in the sense of Atiyah which give well behaved Noetherian uncompleted versions of the theory *The Connective K-Theory of Finite Groups* Robert Ray Bruner,John Patrick Campbell Greenlees,2003 Includes a paper that deals the connective K homology and cohomology of finite groups G This title uses the methods of algebraic geometry to study the ring ku DEGREES BG where ku denotes connective complex K theory It describes the variety in terms of the category of abelian p subgroups of G for primes p dividing the group The Strong K�nneth Theorem for Topological Periodic Cyclic Homology Andrew J. Blumberg,Michael A. Mandell,2024-10-23 View the abstract **Homotopy Invariant Algebraic Structures** Jean-Pierre Meyer,1999 This volume presents the proceedings of the conference held in honor of J Michael Boardman s 60th birthday It brings into print his classic work on conditionally convergent spectral sequences Over the past 30 years it has become evident that some of the deepest questions in algebra are best understood against the background of homotopy theory Boardman and Vogt s theory of homotopy theoretic algebraic structures and the theory of spectra for example were two benchmark breakthroughs underlying the development of algebraic K theory and the recent advances in the theory of motives The volume begins with short notes by Mac Lane May Stasheff and others on the early and recent history of the subject But the bulk of the volume consists of research papers on topics that have been strongly influenced by Boardman s work Articles give readers a vivid sense of the current state of the

theory of homotopy invariant algebraic structures Also included are two major foundational papers by Goerss and Strickland on applications of methods of algebra i e Dieudonn modules and formal schemes to problems of topology Boardman is known for the depth and wit of his ideas This volume is intended to reflect and to celebrate those fine characteristics   *Cyclic Homology* Jean-Louis Loday,2013-03-09 From the reviews This is a very interesting book containing material for a comprehensive study of the cyclid homological theory of algebras cyclic sets and S1 spaces Lie algebras and algebraic K theory and an introduction to Connes work and recent results on the Novikov conjecture The book requires a knowledge of homological algebra and Lie algebra theory as well as basic technics coming from algebraic topology The bibliographic comments at the end of each chapter offer good suggestions for further reading and research The book can be strongly recommended to anybody interested in noncommutative geometry contemporary algebraic topology and related topics European Mathematical Society Newsletter In this second edition the authors have added a chapter 13 on MacLane co homology   *Recent Progress in Homotopy Theory* Donald M. Davis,2002 This volume presents the proceedings from the month long program held at Johns Hopkins University Baltimore MD on homotopy theory sponsored by the Japan U S Mathematics Institute JAMI The book begins with historical accounts on the work of Professors Peter Landweber and Stewart Priddy Central among the other topics are the following 1 classical and nonclassical theory of H spaces compact groups and finite groups 2 classical and chromatic homotopy theory andlocalization 3 classical and topological Hochschild cohomology 4 elliptic cohomology and its relation to Moonshine and topological modular forms and 5 motivic cohomology and Chow rings This volume surveys the current state of research in these areas and offers an overview of futuredirections   **Handbook of Algebraic Topology** I.M. James,1995-07-18 Algebraic topology also known as homotopy theory is a flourishing branch of modern mathematics It is very much an international subject and this is reflected in the background of the 36 leading experts who have contributed to the Handbook Written for the reader who already has a grounding in the subject the volume consists of 27 expository surveys covering the most active areas of research They provide the researcher with an up to date overview of this exciting branch of mathematics   **Syzygies and Homotopy Theory** F.E.A. Johnson,2011-11-17 The most important invariant of a topological space is its fundamental group When this is trivial the resulting homotopy theory is well researched and familiar In the general case however homotopy theory over nontrivial fundamental groups is much more problematic and far less well understood Syzygies and Homotopy Theory explores the problem of nonsimply connected homotopy in the first nontrivial cases and presents for the first time a systematic rehabilitation of Hilbert s method of syzygies in the context of non simply connected homotopy theory The first part of the book is theoretical formulated to allow a general finitely presented group as a fundamental group The innovation here is to regard syzygies as stable modules rather than minimal modules Inevitably this forces a reconsideration of the problems of noncancellation these are confronted in the second practical part of the book In particular the second part of the book considers how the theory works out in detail for the

specific examples Fn F where Fn is a free group of rank n and F is finite Another innovation is to parametrize the first syzygy in terms of the more familiar class of stably free modules Furthermore detailed description of these stably free modules is effected by a suitable modification of the method of Milnor squares The theory developed within this book has potential applications in various branches of algebra including homological algebra ring theory and K theory Syzygies and Homotopy Theory will be of interest to researchers and also to graduate students with a background in algebra and algebraic topology

Topology, Geometry and Quantum Field Theory Ulrike Luise Tillmann,2004-06-28 The symposium held in honour of the 60th birthday of Graeme Segal brought together leading physicists and mathematicians Its topics were centred around string theory M theory and quantum gravity on the one hand and K theory elliptic cohomology quantum cohomology and string topology on the other Geometry and quantum physics developed in parallel since the recognition of the central role of non abelian gauge theory in elementary particle physics in the late seventies and the emerging study of super symmetry and string theory With its selection of survey and research articles these proceedings fulfil the dual role of reporting on developments in the field and defining directions for future research For the first time Graeme Segal s manuscript The definition of Conformal Field Theory is published which has been greatly influential over more than ten years An introduction by the author puts it into the present context *Interactions between Homotopy Theory and Algebra* Luchezar L. Avramov,2007 This book is based on talks presented at the Summer School on Interactions between Homotopy theory and Algebra held at the University of Chicago in the summer of 2004 The goal of this book is to create a resource for background and for current directions of research related to deep connections between homotopy theory and algebra including algebraic geometry commutative algebra and representation theory The articles in this book are aimed at the audience of beginning researchers with varied mathematical backgrounds and have been written with both the quality of exposition and the accessibility to novices in mind *Equivariant Topology and Derived Algebra* Scott Balchin,David Barnes,Magdalena Kędziorek,Markus Szymik,2022 A collection of research papers both new and expository based on the interests of Professor J P C Greenlees *Homotopy Methods in Algebraic Topology* Nicholas Kuhn,2001-04-25 This volume presents the proceedings from the AMS IMS SIAM Summer Research Conference on Homotopy Methods in Algebraic Topology held at the University of Colorado Boulder The conference coincided with the sixtieth birthday of J Peter May An article is included reflecting his wide ranging and influential contributions to the subject area Other articles in the book discuss the ordinary elliptic and real oriented Adams spectral sequences mapping class groups configuration spaces extended powers operads the telescope conjecture p compact groups algebraic K theory stable and unstable splittings the calculus of functors the E_ infty tensor product and equivariant cohomology theories The book offers a compendious source on modern aspects of homotopy theoretic methods in many algebraic settings

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