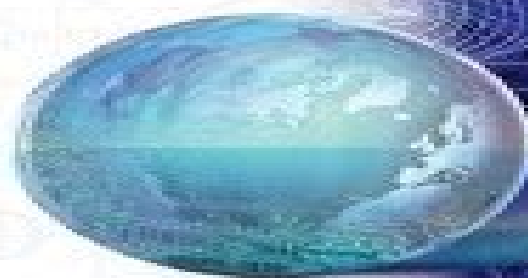


CYCLIC HOMOLOGY OF ALGEBRAS

Peter Seibt

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Cyclic Homology Of Algebras

**A. Connes, C. Consani, B. I. Dundas, M.
Khalkhali, H. Moscovici**

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Cyclic Homology Of Algebras Peter Seibt, 1987-12-01 This book is purely algebraic and concentrates on cyclic homology rather than on cohomology. It attempts to single out the basic algebraic facts and techniques of the theory. The book is organized in two chapters. The first chapter deals with the intimate relation of cyclic theory to ordinary Hochschild theory. The second chapter deals with cyclic homology as a typical characteristic zero theory.

Cyclic Homology Jean-Louis Loday, 2013-06-29 This book is a comprehensive study of cyclic homology theory together with its relationship with Hochschild homology, de Rham cohomology, S^1 equivariant homology, the Chern character, Lie algebra homology, algebraic K theory, and non commutative differential geometry. Though conceived as a basic reference on the subject, many parts of this book are accessible to graduate students.

Cyclic Homology in Non-Commutative Geometry Joachim Cuntz, Georges Skandalis, Boris Tsygan, 2013-03-14 Cyclic homology was introduced in the early eighties independently by Connes and Tsygan. They came from different directions: Connes wanted to associate homological invariants to K homology classes and to describe the index pairing with K theory in that way, while Tsygan was motivated by algebraic K theory and Lie algebra cohomology. At the same time, Karoubi had done work on characteristic classes that led him to study related structures without, however, arriving at cyclic homology properly speaking. Many of the principal properties of cyclic homology were already developed in the fundamental article of Connes and in the long paper by Feigin and Tsygan. In the sequel, cyclic homology was recognized quickly by many specialists as a new intriguing structure in homological algebra with unusual features. In a first phase, it was tried to treat this structure as well as possible within the traditional framework of homological algebra. The cyclic homology groups were computed in many examples, and new important properties such as product structures, excision for H-unital ideals, or connections with cyclic objects and simplicial topology were established. An excellent account of the state of the theory after that phase is given in the book of Loday.

Local and Analytic Cyclic Homology Ralf Meyer, 2007 Periodic cyclic homology is a homology theory for non commutative algebras that plays a similar role in non commutative geometry as de Rham cohomology for smooth manifolds. While it produces good results for algebras of smooth or polynomial functions, it fails for bigger algebras such as most Banach algebras or C algebras. Analytic and local cyclic homology are variants of periodic cyclic homology that work better for such algebras. In this book, the author develops and compares these theories, emphasizing their homological properties. This includes the excision theorem, invariance under passage to certain dense subalgebras, a Universal Coefficient Theorem that relates them to K theory and the Chern-Connes character for K theory and K homology. The cyclic homology theories studied in this text require a good deal of functional analysis in bornological vector spaces, which is supplied in the first chapters. The focal points here are the relationship with inductive systems and the functional calculus in non commutative bornological algebras. Some chapters are more elementary and independent of the rest of the book and will be of interest to researchers and students working on functional analysis and

its applications Lectures on Cyclic Homology Dale Husemöller, 1991 **Bivariant Periodic Cyclic Homology** Christian Groenbaek, 1999-04-30 Recent work by Cuntz and Quillen on bivariant periodic cyclic homology has caused quite a revolution in the subject In this self contained exposition the author s purpose is to understand the functorial properties of the Cuntz Quillen theory which motivates his explorations of what he calls cyclic pro homology Simply stated the cyclic pro homology of an associative algebra A is short for the $\mathbb{Z} \times \mathbb{Z}$ graded inverse system of cyclic homology groups of A considered as a pro vector space The author finds that this functor taking algebras over a field k of characteristic zero into the category of pro k vector spaces is remarkable He presents a proof that it is excisive and that it satisfies a Kunneth isomorphism for the tensor product of algebras He explains the relation to the Cuntz Quillen groups in a Universal Coefficient Theorem and in a Milnor lim¹ sequence This enables the lifting to some extent of the nice properties of cyclic pro homology properties to the Cuntz Quillen theory itself It is interesting to note that for the excision result this lifting procedure goes through without constraints For those new to cyclic homology Dr Groenbaek takes care to provide an introduction to the subject including the motivation for the theory definitions and fundamental results and establishes the homological machinery needed for application to the Cuntz Quillen theory Mathematicians interested in cyclic homology especially ring theorists using homological methods will find this work original enlightening and thought provoking The author leaves the door open for deeper study into excision for the Cuntz Quillen theory for a class of topological algebras such as the category of m algebras considered by Cuntz **Cyclic Homology and de Rham Homology of Affine Algebras** Ioannis Emmanouil, 1994

Cyclic Cohomology at 40: Achievements and Future Prospects A. Connes, C. Consani, B. I. Dundas, M. Khalkhali, H. Moscovici, 2023-02-23 This volume contains the proceedings of the virtual conference on Cyclic Cohomology at 40 Achievements and Future Prospects held from September 27 October 1 2021 and hosted by the Fields Institute for Research in Mathematical Sciences Toronto ON Canada Cyclic cohomology since its discovery forty years ago in noncommutative differential geometry has become a fundamental mathematical tool with applications in domains as diverse as analysis algebraic K theory algebraic geometry arithmetic geometry solid state physics and quantum field theory The reader will find survey articles providing a user friendly introduction to applications of cyclic cohomology in such areas as higher categorical algebra Hopf algebra symmetries de Rham Witt complex quantum physics etc in which cyclic homology plays the role of a unifying theme The researcher will find frontier research articles in which the cyclic theory provides a computational tool of great relevance In particular in analysis cyclic cohomology index formulas capture the higher invariants of manifolds where the group symmetries are extended to Hopf algebra actions and where Lie algebra cohomology is greatly extended to the cyclic cohomology of Hopf algebras which becomes the natural receptacle for characteristic classes In algebraic topology the cyclotomic structure obtained using the cyclic subgroups of the circle action on topological Hochschild homology gives rise to remarkably significant arithmetic structures intimately related to crystalline cohomology through the de Rham Witt complex

Fontaine's theory and the Fargues-Fontaine curve An Introduction to Homological Algebra Charles A. Weibel, 1994 A portrait of the subject of homological algebra as it exists today

Cyclic Homology of Extension Algebras with Application to Matrix Algebras, Algebraic K-theory, and Nest Algebras of Operators Lars David Kadison, 1989

Some Aspects of Cyclic Homology and Quantum Quasi-shuffle Algebras Jiao Zhang, 2010 **Idempotent Matrices over Complex Group Algebras** Ioannis Emmanouil, 2005-12-19 The theory of idempotent matrices with entries in complex group algebras has recently experienced a revival in view of its close relationship with deep geometric problems and conjectures. The relevant questions studied in this book for general groups are motivated by specific examples. A variety of techniques is employed from commutative algebra, homological algebra and functional analysis. The book can serve as an introduction to this lively research area. The pace is suitable for independent study and the level of the presentation not very demanding. The exercises at the end of each chapter form an essential part of the book.

Hochschild and Cyclic Homology of Finite Type Algebras David A. Kazhdan, Victor Nistor, Peter Schneider, Eberly College of Science. Department of Mathematics, 1997 We study Hochschild and cyclic homology of finite type algebras using abelian stratifications of their primitive ideal spectrum. Hochschild homology turns out to have a quite complicated behavior but cyclic homology can be related directly to the singular cohomology of the strata. We also briefly discuss some connections with the representation theory of reductive p -adic groups.

The Local Structure of Algebraic K-Theory Bjørn Ian Dundas, Thomas G. Goodwillie, Randy McCarthy, 2012-09-06 Algebraic K-theory encodes important invariants for several mathematical disciplines spanning from geometric topology and functional analysis to number theory and algebraic geometry. As is commonly encountered, this powerful mathematical object is very hard to calculate. Apart from Quillen's calculations of finite fields and Suslin's calculation of algebraically closed fields, few complete calculations were available before the discovery of homological invariants offered by motivic cohomology and topological cyclic homology. This book covers the connection between algebraic K-theory and Bökstedt-Hsiang and Madsen's topological cyclic homology and proves that the difference between the theories are locally constant. The usefulness of this theorem stems from being more accessible for calculations than K-theory and hence a single calculation of K-theory can be used with homological calculations to obtain a host of nearby calculations in K-theory. For instance, Quillen's calculation of the K-theory of finite fields gives rise to Hesselholt and Madsen's calculations for local fields and Voevodsky's calculations for the integers give insight into the diffeomorphisms of manifolds. In addition to the proof of the full integral version of the local correspondence between K-theory and topological cyclic homology, the book provides an introduction to the necessary background in algebraic K-theory and highly structured homotopy theory, collecting all necessary tools into one common framework. It relies on simplicial techniques and contains an appendix summarizing the methods widely used in the field. The book is intended for graduate students and scientists interested in algebraic K-theory and presupposes a basic knowledge of algebraic topology.

Topics in Cyclic Theory Daniel G. Quillen, Gordon Blower, 2020-07-09 Noncommutative geometry

combines themes from algebra analysis and geometry and has significant applications to physics This book focuses on cyclic theory and is based upon the lecture courses by Daniel G Quillen at the University of Oxford from 1988-92 which developed his own approach to the subject The basic definitions examples and exercises provided here allow non specialists and students with a background in elementary functional analysis commutative algebra and differential geometry to get to grips with the subject Quillen's development of cyclic theory emphasizes analogies between commutative and noncommutative theories in which he reinterpreted classical results of Hamiltonian mechanics operator algebras and differential graded algebras into a new formalism In this book cyclic theory is developed from motivating examples and background towards general results Themes covered are relevant to current research including homomorphisms modulo powers of ideals traces on noncommutative differential forms quasi free algebras and Chern characters on connections

Cyclic homology of monogenic algebras, 1993 *Banach Algebras and Their Applications* Anthony To-Ming Lau, Volker Runde, 2004 This proceedings volume is from the international conference on Banach Algebras and Their Applications held at the University of Alberta Edmonton It contains a collection of refereed research papers and high level expository articles that offer a panorama of Banach algebra theory and its manifold applications Topics in the book range from theory to abstract harmonic analysis to operator theory It is suitable for graduate students and researchers interested in Banach algebras

Hochschild and Cyclic Homology of 3-preprojective Algebras of Type A. Davide Morigi, 2022 **Excision in Cyclic Homology of Topological Algebras** Jonathan L. Block, 1987 *Algebraic K-theory And Its Applications - Proceedings Of The School* Hyman Bass, Aderemi Oluyomi Kuku, C Pedrini, 1999-03-12 The Proceedings volume is divided into two parts The first part consists of lectures given during the first two weeks devoted to a workshop featuring state of the art expositions on Overview of Algebraic K theory including various constructions examples and illustrations from algebra number theory algebraic topology and algebraic differential geometry as well as on more concentrated topics involving connections of K theory with Galois etale cyclic and motivic co homologies values of zeta functions and Arithmetics of Chow groups and zero cycles The second part consists of research papers arising from the symposium lectures in the third week

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