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Cyclic Homology in Non-Commutative Geometry



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Cyclic Homology In Noncommutative Geometry

Masoud Khalkhali



Cyclic Homology In Noncommutative Geometry:

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-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.

Cyclic Homology in Non-Commutative Geometry Joachim Cuntz, Georges Skandalis, Boris Tsygan, 2014-01-15 Contributions by three authors treat aspects of noncommutative geometry that are related to cyclic homology. The authors give rather complete accounts of cyclic theory from different points of view. The connections between bivariant K theory and cyclic theory via generalized Chern characters are discussed in detail. Cyclic theory is the natural setting for a variety of general abstract index theorems. A survey of such index theorems is given and the concepts and ideas involved in these theorems are explained.

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 to 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

K-theory and Noncommutative Geometry Guillermo Cortiñas, 2008 Since its inception 50 years ago K theory has been a tool for understanding a wide ranging family of mathematical structures and their invariants topological spaces rings algebraic varieties and operator algebras are the dominant examples The invariants range from characteristic classes in cohomology determinants of matrices Chow groups of varieties as well as traces and indices of elliptic operators Thus K theory is notable for its connections with other branches of mathematics Noncommutative geometry develops tools which allow one to think of noncommutative algebras in the same footing as commutative ones as algebras of functions on noncommutative spaces The algebras in question come from problems in various areas of mathematics and mathematical physics typical examples include algebras of pseudodifferential operators group algebras and other algebras arising from quantum field theory To study noncommutative geometric problems one considers invariants of the relevant noncommutative algebras These invariants include algebraic and topological K theory and also cyclic homology discovered independently by Alain Connes and Boris Tsygan which can be regarded both as a noncommutative version of de Rham cohomology and as an additive version of K theory There are primary and secondary Chern characters which pass from K theory to cyclic homology These characters are relevant both to noncommutative and commutative problems and have applications ranging from index theorems to the detection of singularities of commutative algebraic varieties The contributions to this volume represent this range of connections between K theory noncommutative geometry and other branches of mathematics

Cyclic Cohomology and Noncommutative Geometry Joachim J. R. Cuntz, Masoud Khalkhali, 1997-01-01 Noncommutative geometry is a new field that is among the great challenges of present day mathematics Its methods allow one to treat noncommutative algebras such as algebras of pseudodifferential operators group algebras or algebras arising from quantum field theory on the same footing as commutative algebras that is as spaces Applications range over many fields of mathematics and mathematical physics This volume contains the proceedings of the workshop on Cyclic Cohomology and Noncommutative Geometry held at The Fields Institute Waterloo ON in June 1995 The workshop was part of the program for the special year on operator algebras and its applications

Noncommutative Geometry Alain Connes, Joachim Cuntz, Erik G. Guentner, Nigel Higson, Jerome Kaminker, John E. Roberts, 2003-12-15 Noncommutative Geometry is one of the most deep and vital research subjects of present day Mathematics Its development mainly due to Alain Connes is providing an increasing number of applications and deeper insights for instance in Foliations K Theory Index Theory Number Theory but also in Quantum Physics of elementary particles The purpose of the Summer School in Martina Franca was to offer a fresh invitation to the subject and closely related topics the contributions in this volume include the four main lectures cover advanced developments and are delivered by prominent specialists

An Invitation to Noncommutative Geometry Masoud Khalkhali, Matilde Marcolli, 2008 A walk

in the noncommutative garden A Connes and M Marcolli Renormalization of noncommutative quantum field theory H Grosse and R Wulkenhaar Lectures on noncommutative geometry M Khalkhali Noncommutative bundles and instantons in Tehran G Landi and W D van Suijlekom Lecture notes on noncommutative algebraic geometry and noncommutative tori S Mahanta Lectures on derived and triangulated categories B Noohi Examples of noncommutative manifolds complex tori and spherical manifolds J Plazas D branes in noncommutative field theory R J Szabo

Noncommutative Geometry and Number Theory Caterina Consani, Matilde Marcolli, 2007-12-18 In recent years number theory and arithmetic geometry have been enriched by new techniques from noncommutative geometry operator algebras dynamical systems and K Theory This volume collects and presents up to date research topics in arithmetic and noncommutative geometry and ideas from physics that point to possible new connections between the fields of number theory algebraic geometry and noncommutative geometry The articles collected in this volume present new noncommutative geometry perspectives on classical topics of number theory and arithmetic such as modular forms class field theory the theory of reductive p adic groups Shimura varieties the local L factors of arithmetic varieties They also show how arithmetic appears naturally in noncommutative geometry and in physics in the residues of Feynman graphs in the properties of noncommutative tori and in the quantum Hall effect

Elliptic Theory and Noncommutative Geometry Vladimir E. Nazaykinskiy, A. Yu. Savin, B. Yu. Sternin, 2008-06-30 This comprehensive yet concise book deals with nonlocal elliptic differential operators These are operators whose coefficients involve shifts generated by diffeomorphisms of the manifold on which the operators are defined This is the first book featuring a consistent application of methods of noncommutative geometry to the index problem in the theory of nonlocal elliptic operators To make the book self contained the authors have included necessary geometric material

Noncommutative Geometry and Global Analysis Henri Moscovici, 2011 This volume represents the proceedings of the conference on Noncommutative Geometric Methods in Global Analysis held in honor of Henri Moscovici from June 29 July 4 2009 in Bonn Germany Henri Moscovici has made a number of major contributions to noncommutative geometry global analysis and representation theory This volume which includes articles by some of the leading experts in these fields provides a panoramic view of the interactions of noncommutative geometry with a variety of areas of mathematics It focuses on geometry analysis and topology of manifolds and singular spaces index theory group representation theory connections of noncommutative geometry with number theory and arithmetic geometry Hopf algebras and their cyclic cohomology

Advances in Noncommutative Geometry Ali Chamseddine, Caterina Consani, Nigel Higson, Masoud Khalkhali, Henri Moscovici, Guoliang Yu, 2020-01-13 This authoritative volume in honor of Alain Connes the foremost architect of Noncommutative Geometry presents the state of the art in the subject The book features an amalgam of invited survey and research papers that will no doubt be accessed read and referred to for several decades to come The pertinence and potency of new concepts and methods are concretely illustrated in each contribution Much of the content is a direct outgrowth of the

Noncommutative Geometry conference held March 23 April 7 2017 in Shanghai China The conference covered the latest research and future areas of potential exploration surrounding topology and physics number theory as well as index theory and its ramifications in geometry

Basic Noncommutative Geometry Masoud Khalkhali, 2009 Basic Noncommutative Geometry provides an introduction to noncommutative geometry and some of its applications The book can be used either as a textbook for a graduate course on the subject or for self study It will be useful for graduate students and researchers in mathematics and theoretical physics and all those who are interested in gaining an understanding of the subject One feature of this book is the wealth of examples and exercises that help the reader to navigate through the subject While background material is provided in the text and in several appendices some familiarity with basic notions of functional analysis algebraic topology differential geometry and homological algebra at a first year graduate level is helpful Developed by Alain Connes since the late 1970s noncommutative geometry has found many applications to long standing conjectures in topology and geometry and has recently made headways in theoretical physics and number theory The book starts with a detailed description of some of the most pertinent algebra geometry correspondences by casting geometric notions in algebraic terms then proceeds in the second chapter to the idea of a noncommutative space and how it is constructed The last two chapters deal with homological tools cyclic cohomology and Connes Chern characters in K theory and K homology culminating in one commutative diagram expressing the equality of topological and analytic index in a noncommutative setting Applications to integrality of noncommutative topological invariants are given as well Publisher's description

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

Topics in Noncommutative Geometry Guillermo Cortiñas, 2012 Luis Santalo Winter Schools are organized yearly by the Mathematics Department and the Santalo Mathematical Research Institute of the School of Exact and Natural Sciences of the University of Buenos Aires FCEN This volume contains the proceedings of the third Luis Santalo Winter School which was devoted to noncommutative geometry and held at FCEN July 26 August 6 2010 Topics in this volume concern noncommutative geometry in a broad sense encompassing various mathematical and physical theories that incorporate geometric ideas to the study of noncommutative phenomena It explores connections with several areas including algebra analysis geometry topology and mathematical physics Bursztyn and Waldmann discuss the classification of star products of Poisson structures up to Morita equivalence Tsygan explains the connections between Kontsevich's formality theorem noncommutative calculus operads and index theory Hoefel presents a concrete elementary construction in operad theory Meyer introduces the subject of $\mathrm{mathrm C}$ algebraic crossed products Rosenberg introduces Kasparov's KK theory and noncommutative tori and includes a discussion of the Baum Connes conjecture for K theory of

crossed products among other topics Lafont Ortiz and Sanchez Garcia carry out a concrete computation in connection with the Baum Connes conjecture Zuk presents some remarkable groups produced by finite automata Mesland discusses spectral triples and the Kasparov product in KK theory Trinchero explores the connections between Connes noncommutative geometry and quantum field theory Karoubi demonstrates a construction of twisted K theory by means of twisted bundles Tabuada surveys the theory of noncommutative motives [Noncommutative Geometry, Arithmetic, and Related Topics](#) Caterina Consani, Alain Connes, 2011 Mathematics Institute these essays collectively provide mathematicians and physicists with a comprehensive resource on the topic **Noncommutative Geometry** Igor V. Nikolaev, 2017-11-07 This book covers the basics of noncommutative geometry NCG and its applications in topology algebraic geometry and number theory The author takes up the practical side of NCG and its value for other areas of mathematics A brief survey of the main parts of NCG with historical remarks bibliography and a list of exercises is included The presentation is intended for graduate students and researchers with interests in NCG but will also serve nonexperts in the field Contents Part I Basics Model examples Categories and functors C algebras Part II Noncommutative invariants Topology Algebraic geometry Number theory Part III Brief survey of NCG Finite geometries Continuous geometries Connes geometries Index theory Jones polynomials Quantum groups Noncommutative algebraic geometry Trends in noncommutative geometry [From Differential Geometry to Non-commutative Geometry and Topology](#) Neculai S. Teleman, 2019-11-10 This book aims to provide a friendly introduction to non commutative geometry It studies index theory from a classical differential geometry perspective up to the point where classical differential geometry methods become insufficient It then presents non commutative geometry as a natural continuation of classical differential geometry It thereby aims to provide a natural link between classical differential geometry and non commutative geometry The book shows that the index formula is a topological statement and ends with non commutative topology [Topics in Non-Commutative Geometry](#) Yuri I. Manin, 2014-07-14 There is a well known correspondence between the objects of algebra and geometry a space gives rise to a function algebra a vector bundle over the space corresponds to a projective module over this algebra cohomology can be read off the de Rham complex and so on In this book Yuri Manin addresses a variety of instances in which the application of commutative algebra cannot be used to describe geometric objects emphasizing the recent upsurge of activity in studying noncommutative rings as if they were function rings on noncommutative spaces Manin begins by summarizing and giving examples of some of the ideas that led to the new concepts of noncommutative geometry such as Connes noncommutative de Rham complex supergeometry and quantum groups He then discusses supersymmetric algebraic curves that arose in connection with superstring theory examines superhomogeneous spaces their Schubert cells and superanalogues of Weyl groups and provides an introduction to quantum groups This book is intended for mathematicians and physicists with some background in Lie groups and complex geometry Originally published in 1991 The Princeton Legacy Library uses the latest

print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Perspectives on Noncommutative Geometry Masoud Khalkhali, 2011. This volume represents the proceedings of the Noncommutative Geometry Workshop that was held as part of the thematic program on operator algebras at the Fields Institute in May 2008. Pioneered by Alain Connes starting in the late 1970s, noncommutative geometry was originally inspired by global analysis, topology, operator algebras, and quantum physics. Its main applications were to settle some long-standing conjectures such as the Novikov conjecture and the Baum-Connes conjecture. Next came the impact of spectral geometry and the way the spectrum of a geometric operator like the Laplacian holds information about the geometry and topology of a manifold as in the celebrated Weyl law. This has now been vastly generalized through Connes' notion of spectral triples. Finally, recent years have witnessed the impact of number theory, algebraic geometry, and the theory of motives and quantum field theory on noncommutative geometry. Almost all of these aspects are touched upon with new results in the papers of this volume. This book is intended for graduate students and researchers in both mathematics and theoretical physics who are interested in noncommutative geometry and its applications.

Surveys in Noncommutative Geometry Nigel Higson, John Roe, 2006. In June 2000 the Clay Mathematics Institute organized an Instructional Symposium on Noncommutative Geometry in conjunction with the AMS-IMS-SIAM Joint Summer Research Conference. These events were held at Mount Holyoke College in Massachusetts from June 18 to 29, 2000. The Instructional Symposium consisted of several series of expository lectures which were intended to introduce key topics in noncommutative geometry to mathematicians unfamiliar with the subject. Those expository lectures have been edited and are reproduced in this volume. The lectures of Rosenberg and Weinberger discuss various applications of noncommutative geometry to problems in ordinary geometry and topology. The lectures of Lagarias and Tretkoff discuss the Riemann hypothesis and the possible application of the methods of noncommutative geometry in number theory. Higson gives an account of the residue index theorem of Connes and Moscovici. Noncommutative geometry is to an unusual extent the creation of a single mathematician, Alain Connes. The present volume gives an extended introduction to several aspects of Connes' work in this fascinating area.

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