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Cyclic Homology Grundlehren Der Mathematischen Wissenschaften 301

Alain Connes,Matilde Marcolli

Cyclic Homology Grundlehren Der Mathematischen Wissenschaften 301:

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 *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 **Quantum Riemannian Geometry** Edwin J. Beggs,Shahn Majid,2020-01-31 This book provides a comprehensive account of a modern generalisation of differential geometry in which coordinates need not commute This requires a reinvention of differential geometry that refers only to the coordinate algebra now possibly noncommutative rather than to actual points Such a theory is needed for the geometry of Hopf algebras or quantum groups which provide key examples as well as in physics to model quantum gravity effects in the form of quantum spacetime The mathematical formalism can be applied to any algebra and includes graph geometry and a Lie theory of finite groups Even the algebra of 2 x 2 matrices turns out to admit a rich moduli of quantum Riemannian geometries The approach taken is a bottom up one in which the different layers of geometry are built up in succession starting from differential forms and proceeding up to the notion of a quantum Levi Civita bimodule connection geometric Laplacians and in some cases Dirac operators The book also covers elements of Connes approach to the subject coming from cyclic cohomology and spectral triples Other topics include various other cohomology theories holomorphic structures and noncommutative D modules A unique feature of the book is its constructive approach and its wealth of examples drawn from a large body of literature in mathematical physics now put on a firm algebraic footing Including exercises with solutions it can be used as a textbook for advanced courses as well as a reference for researchers **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

Lectures On Deformation Quantisation: From Moyal Product To Kontsevich's Formality Theorem Georgy Igorevich Sharygin,2025-05-20 Principles of classical Hamiltonian mechanics say that the evolution of a dynamical system is determined by the Poisson bracket of observable functions with the given Hamiltonian function of the system In Quantum Mechanics these principles are modified so that the algebra of observable functions should be replaced by a noncommutative algebra of operators and the Poisson bracket by their commutator so that the canonical commutation relations hold Thus working with quantum systems we must determine the quantisation of our observables i e to choose a noncommutative algebra whose elements would play the role of the observables With some modifications this question is the main content of the Deformation Quantisation problem formulated in 1978 by Flato and others This book is based on the course that the author taught in the Fall semester of 2019 at Peking University The main purpose of that course and of this book is to acquaint the reader with the vast scope of ideas related to the Deformation Quantisation of Poisson manifolds The book begins with Quantum Mechanics and Moyal product formula and covers the three main constructions that solve the Deformation Quantisation problem Lecomte and de Wilde deformation of symplectic manifolds Fedosov s Quantisation theory and Kontsevich s formality theorem In the appendices the Tamarkin s proof of formality theorem is outlined The book is written in a reader friendly manner and is as self contained as possible It includes several sets of problems and exercises that will help the reader to master the material **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 **Higher-dimensional Geometry Over Finite Fields** Dmitri Kaledin,Yuri Tschinkel,2008 Proceedings of the NATO Advanced Study Institute on Higher Dimensional Geometry over Finite Fields Geottingen Germany 25 June 6 July 2007 T p verso **Homology of Linear Groups** Kevin P. Knudson,2012-12-06 Daniel Quillen s definition of the higher algebraic K groups of a ring emphasized the importance of computing the homology of groups of matrices This text traces the development of this theory from Quillen s fundamental calculation of the cohomology of GLn Fq The stability theorems and low dimensional results of A Suslin W van der Kallen and others are presented as well as recent results for rank one groups A chapter on the Friedlander Milnor conjecture concerning the homology of algebraic groups made discrete is also included This marks the first time that these results have been collected in a single volume The book should prove useful to graduate students and researchers in K theory group cohomology algebraic geometry and topology **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 **Superschool on Derived Categories and D-branes** Matthew Ballard,Charles Doran,David Favero,Eric Sharpe,2018-08-21 This book consists of a series of introductory lectures on mirror symmetry and its surrounding topics These lectures were provided by participants in the PIMS Superschool for Derived Categories and D branes in July 2016 Together they form a comprehensive introduction to the field that integrates perspectives from mathematicians and physicists alike These proceedings provide a pleasant and broad introduction into modern research topics surrounding string theory and mirror symmetry that is approachable to readers new to the subjects These topics include constructions of various mirror pairs approaches to mirror symmetry connections to homological algebra and physical motivations Of particular interest is the connection between GLSMs D branes birational geometry and derived categories which is explained both from a physical and mathematical perspective The introductory lectures provided herein highlight many features of this emerging field and give concrete connections between the physics and the math Mathematical readers will come away with a broader perspective on this field and a bit of physical intuition while physicists will gain an introductory overview of the developing mathematical realization of physical predictions **Mathematical Aspects of Quantum Field Theories** Damien Calaque,Thomas Strobl,2015-01-06 Despite its long history and stunning experimental successes the mathematical foundation of perturbative quantum field theory is still a subject of ongoing research This book aims at presenting some of the most recent advances in the field and at reflecting the diversity of approaches and tools invented and currently employed Both leading experts and comparative newcomers to the field present their latest findings helping readers to gain a better understanding of not only quantum but also classical field theories Though the book offers a valuable resource for mathematicians and physicists alike the focus is more on mathematical developments This volume consists of four parts The first Part covers local aspects of perturbative quantum field theory with an emphasis on the axiomatization of the algebra behind the operator product expansion The second Part highlights Chern Simons gauge theories while the third examines semi classical field theories In closing Part 4 addresses factorization homology and factorization algebras **Open Problems in Mathematics** John Forbes Nash, Jr.,Michael Th. Rassias,2016-07-05 The goal in putting together this unique compilation was to present the current status of the solutions to some of the most essential open problems in pure and applied mathematics Emphasis is also given to problems in interdisciplinary research for which mathematics plays a key role This volume comprises highly selected contributions by some of the most eminent mathematicians in the international mathematical community on longstanding problems in very active domains of mathematical research A joint preface by the two volume editors is followed by a personal farewell to John F Nash Jr written by Michael Th Rassias An introduction by Mikhail Gromov highlights some of Nash s legendary mathematical achievements The treatment in this book includes open problems in the following fields algebraic geometry number theory analysis discrete mathematics PDEs differential geometry topology K theory game theory fluid mechanics dynamical systems and ergodic theory cryptography theoretical computer science and more Extensive discussions surrounding the progress made for each problem are designed to reach a wide community of readers from graduate students and established research mathematicians to physicists computer scientists economists and research scientists who are looking to develop essential and modern new methods and theories to solve a variety of open problems **Mathematical Aspects of Quantization** Sam Evens,2012 This book is a collection of expository articles from the Center of Mathematics at Notre Dame s 2011 program on quantization Included are lecture notes from a summer school on quantization on topics such as the Cherednik algebra geometric quantization detailed proofs of Willwacher s results on the Kontsevich graph complex and group valued moment maps This book also includes expository articles on quantization and automorphic forms renormalization Berezin Toeplitz quantization in the complex setting and the commutation of quantization with reduction as well as an original article on derived Poisson brackets The primary goal of this volume is to make topics in quantization more accessible to graduate students and researchers K-Theory for Operator Algebras Bruce Blackadar,1998-09-13 This book is the only comprehensive treatment of K theory for operator algebras **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 **Geometric Methods in Physics XXXVII** Piotr Kielanowski,Anatol Odzijewicz,Emma Previato,2019-11-26 The book consists of articles based on the XXXVII Bia owie a Workshop on Geometric Methods in Physics 2018 The series of Bia owie a workshops attended by a community of experts at the crossroads of mathematics and physics is a major annual event in the field This edition of the workshop featured a special session dedicated to Professor Daniel Sternheimer on the occasion of his 80th birthday The previously unpublished papers present cutting edge current research typically grounded in geometry and analysis with applications to classical and quantum physics For the past seven years the Bia owie a Workshops have been complemented by a School on Geometry and Physics comprising a series of advanced lectures for graduate students and early career researchers The book also includes abstracts of the five lecture series that were given at the seventh school *Leavitt Path Algebras and Classical K-Theory* A. A. Ambily,Roozbeh Hazrat,B. Sury,2020-01-17 The book offers a comprehensive introduction to Leavitt path algebras LPAs and graph C algebras Highlighting their significant connection with classical K theory which plays an important role in mathematics and its related emerging fields this book allows readers from diverse mathematical backgrounds to understand and appreciate these structures The articles on LPAs are mostly of an expository nature and the ones dealing with K theory provide new proofs and are accessible to interested students and beginners of the field It is a useful resource for graduate students and researchers working in this field and related areas such as C algebras and symbolic dynamics

Noncommutative Geometry, Quantum Fields and Motives Alain Connes,Matilde Marcolli,2019-03-13 The unifying theme of this book is the interplay among noncommutative geometry physics and number theory The two main objects of investigation are spaces where both the noncommutative and the motivic aspects come to play a role space time where the guiding principle is the problem of developing a quantum theory of gravity and the space of primes where one can regard the Riemann Hypothesis as a long standing problem motivating the development of new geometric tools The book stresses the relevance of noncommutative geometry in dealing with these two spaces The first part of the book deals with quantum field theory and the geometric structure of renormalization as a Riemann Hilbert correspondence It also presents a model of elementary particle physics based on noncommutative geometry The main result is a complete derivation of the full Standard Model Lagrangian from a very simple mathematical input Other topics covered in the first part of the book are a noncommutative geometry model of dimensional regularization and its role in anomaly computations and a brief introduction to motives and their conjectural relation to quantum field theory The second part of the book gives an interpretation of the Weil explicit formula as a trace formula and a spectral realization of the zeros of the Riemann zeta function This is based on the noncommutative geometry of the ad le class space which is also described as the space of commensurability classes of Q lattices and is dual to a noncommutative motive endomotive whose cyclic homology provides a general setting for spectral realizations of zeros of L functions The quantum statistical mechanics of the space of Q lattices in one and two dimensions exhibits spontaneous symmetry breaking In the low temperature regime the equilibrium states of the corresponding systems are related to points of classical moduli spaces and the symmetries to the class field theory of the field of rational numbers and of imaginary quadratic fields as well as to the automorphisms of the field of modular functions The book ends with a set of analogies between the noncommutative geometries underlying the mathematical formulation of the Standard Model minimally coupled to gravity and the moduli spaces of Q lattices used in the study of the zeta function **Structured Ring Spectra** Andrew Baker,Birgit Richter,2004-11-18 This book contains some important new contributions to the theory of structured ring spectra *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 B kstedt 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

Cyclic Homology Grundlehren Der Mathematischen Wissenschaften 301 Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Cyclic Homology Grundlehren Der Mathematischen Wissenschaften 301**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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