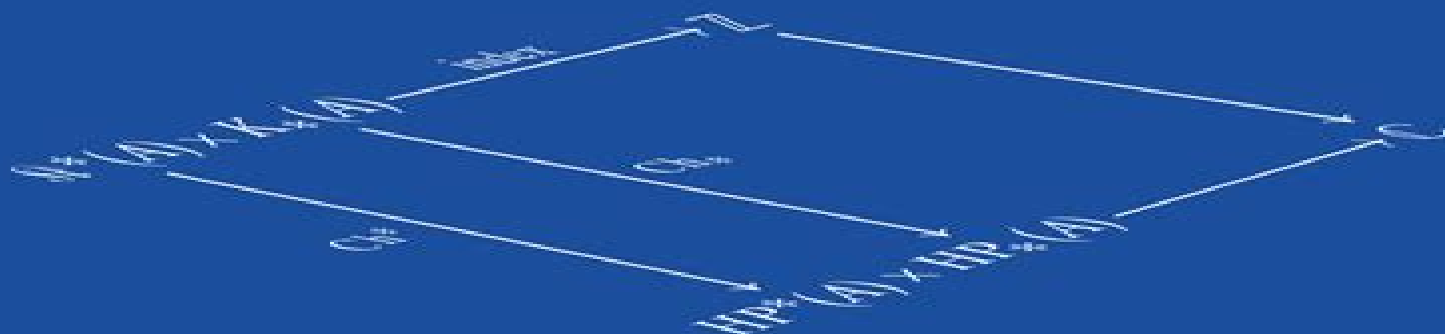


Masoud Khalkhali

Basic Noncommutative Geometry

Second edition



Basic Noncommutative Geometry Ems Series Of Lectures In Mathematics

**Debashish Goswami, Jyotishman
Bhowmick**



Basic Noncommutative Geometry Ems Series Of Lectures In Mathematics:

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

Noncommutative Geometry and Particle Physics

Walter D. van Suijlekom, 2014-07-21 This book provides an introduction to noncommutative geometry and presents a number of its recent applications to particle physics. It is intended for graduate students in mathematics, theoretical physics who are new to the field of noncommutative geometry as well as for researchers in mathematics, theoretical physics with an interest in the physical applications of noncommutative geometry. In the first part we introduce the main concepts and techniques by studying finite noncommutative spaces, providing a light approach to noncommutative geometry. We then proceed with the general framework by defining and analyzing noncommutative spin manifolds and deriving some main results on them such as the local index formula. In the second part we show how noncommutative spin manifolds naturally give rise to gauge theories, applying this principle to specific examples. We subsequently geometrically derive abelian and non-abelian Yang-Mills gauge theories and eventually the full Standard Model of particle physics and conclude by explaining how noncommutative geometry might indicate how to proceed beyond the Standard Model.

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

Noncommutative Geometry and Optimal Transport Pierre Martinetti, Jean-Christophe Wallet, 2016-10-26 The distance formula in noncommutative geometry was introduced by Connes at the end of the 1980s It is a generalization of Riemannian geodesic distance that makes sense in a noncommutative setting and provides an original tool to study the geometry of the space of states on an algebra It also has an intriguing echo in physics for it yields a metric interpretation for the Higgs field In the 1990s Rieffel noticed that this distance is a noncommutative version of the Wasserstein distance of order 1 in the theory of optimal transport More exactly this is a noncommutative generalization of Kantorovich dual formula of the Wasserstein distance Connes distance thus offers an unexpected connection between an ancient mathematical problem and the most recent discovery in high energy physics The meaning of this connection is far from clear Yet Rieffel's observation suggests that Connes distance may provide an interesting starting point for a theory of optimal transport in noncommutative geometry This volume contains several review papers that will give the reader an extensive introduction to the metric aspect of noncommutative geometry and its possible interpretation as a Wasserstein distance on a quantum space as well as several topic papers

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

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 **Lectures on Gaussian**

Integral Operators and Classical Groups Yu. A. Neretin, 2011 This book is an elementary self contained introduction to some constructions of representation theory and related topics of differential geometry and analysis Topics covered include the theory of various Fourier like integral operators such as Segal Bargmann transforms Gaussian integral operators in L^2 and in the Fock space integral operators with theta kernels the geometry of real and p adic classical groups and symmetric spaces The heart of the book is the Weil representation of the symplectic group real and complex realizations relations with theta functions and modular forms p adic and adelic constructions and representations in Hilbert spaces of holomorphic functions of several complex variables This book is addressed to graduate students and researchers in representation theory differential geometry and operator theory Prerequisites are standard university courses in linear algebra functional analysis and complex analysis *Quantum Isometry Groups* Debashish Goswami, Jyotishman Bhowmick, 2017-01-05 This book offers

an up to date overview of the recently proposed theory of quantum isometry groups Written by the founders it is the first book to present the research on the quantum isometry group highlighting the interaction of noncommutative geometry and quantum groups which is a noncommutative generalization of the notion of group of isometry of a classical Riemannian manifold The motivation for this generalization is the importance of isometry groups in both mathematics and physics The framework consists of Alain Connes noncommutative geometry and the operator algebraic theory of quantum groups The authors prove the existence of quantum isometry group for noncommutative manifolds given by spectral triples under mild conditions and discuss a number of methods for computing them One of the most striking and profound findings is the non existence of non classical quantum isometry groups for arbitrary classical connected compact manifolds and by using this the authors explicitly describe quantum isometry groups of most of the noncommutative manifolds studied in the literature Some physical motivations and possible applications are also discussed **Symmetries of Algebras, Volume 1** Chelsea

Walton, 2024-07-08 This is the first volume of a graduate level textbook series in the area of Algebraic Quantum Symmetry The focus of this book series is on how one can do abstract algebra in the setting of monoidal categories It is intended for readers who are familiar with abstract vector spaces groups rings and ideals and the author takes care in introducing categorical concepts from scratch This book series on Symmetries of Algebras is intended to serve as learning books to newcomers to the area of research and a carefully curated list of additional textbooks and articles are featured at the end of each chapter for further exploration There are also numerous exercises throughout the series with close to 200 exercises in Volume 1 alone If you enjoy algebra and are curious about how it fits into a broader context this is for you **Contributions**

of Mexican Mathematicians Abroad in Pure and Applied Mathematics Juan Carlos Pardo Millán, Pedro Solórzano, 2018 This volume contains the proceedings of the Second Workshop of Mexican Mathematicians Abroad II Reunión de Matemáticos Mexicanos en el Mundo held from December 15-19 2014 at Centro de Investigación en Matemáticas CIMAT in Guanajuato

Mexico This meeting was the second in a series of ongoing biannual meetings aimed at showcasing the research of Mexican mathematicians based outside of Mexico The book features articles drawn from eight broad research areas algebra analysis applied mathematics combinatorics dynamical systems geometry probability theory and topology Their topics range from novel applications of non commutative probability to graph theory to interactions between dynamical systems and geophysical flows Several articles survey the fields and problems on which the authors work highlighting research lines currently underrepresented in Mexico The research oriented articles provide either alternative approaches to well known problems or new advances in active research fields The wide selection of topics makes the book accessible to advanced graduate students and researchers in mathematics from different fields

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