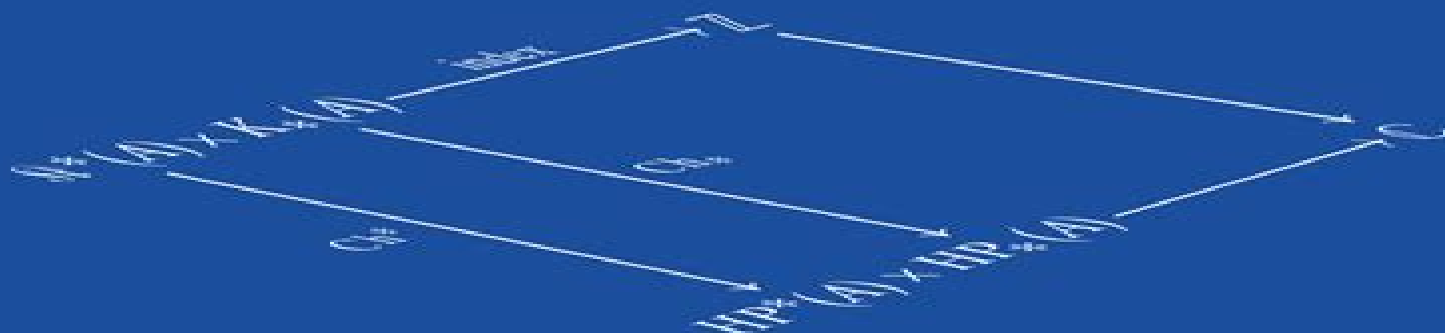


Masoud Khalkhali

# Basic Noncommutative Geometry

Second edition



# Noncommutative Geometry

**Robert S. Doran, Richard V. Kadison**



## **Noncommutative Geometry:**

*Noncommutative Geometry* Alain Connes, 1994-11-22 This English version of the path breaking French book on this subject gives the definitive treatment of the revolutionary approach to measure theory geometry and mathematical physics developed by Alain Connes Profusely illustrated and invitingly written this book is ideal for anyone who wants to know what noncommutative geometry is what it can do or how it can be used in various areas of mathematics quantization and elementary particles and fields First full treatment of the subject and its applications Written by the pioneer of this field Broad applications in mathematics Of interest across most fields Ideal as an introduction and survey Examples treated include the space of Penrose tilings the space of leaves of a foliation the space of irreducible unitary representations of a discrete group the phase space in quantum mechanics the Brillouin zone in the quantum Hall effect A model of space time

**Elements of Noncommutative Geometry** Jose M. Gracia-Bondia, Joseph C. Varilly, Hector Figueroa, 2013-11-27

**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

*An Introduction to C\*-Algebras and Noncommutative Geometry* Heath Emerson, 2024-07-27 This is the first textbook on C algebra theory with a view toward Noncommutative Geometry Moreover it fills a gap in the literature providing a clear and accessible account of the geometric picture of K theory and its relation to the C algebraic picture The text can be used as the basis for a graduate level or a capstone course with the goal being to bring a relative novice up to speed on the basic ideas while offering a glimpse at some of the more advanced topics of the subject Coverage includes C algebra theory K theory K homology Index theory and Connes Noncommutative Riemannian geometry Aimed at graduate level students the book is also a valuable resource for mathematicians who wish to deepen their understanding of noncommutative geometry and algebraic K theory A wide range of important examples are introduced at the beginning of the book There are lots of excellent exercises and any student working through these will benefit significantly Prerequisites include a basic knowledge of algebra analysis and a bit of functional analysis As the book progresses a little more

mathematical maturity is required as the text discusses smooth manifolds some differential geometry and elliptic operator theory and K theory The text is largely self contained though occasionally the reader may opt to consult more specialized material to further deepen their understanding of certain details      **Noncommutative Geometry** Igor V.

Nikolaev,2022-07-18 Noncommutative geometry studies an interplay between spatial forms and algebras with non commutative multiplication This book covers the key concepts of noncommutative geometry and its applications in topology algebraic geometry and number theory Our presentation is accessible to the graduate students as well as nonexperts in the field The second edition includes two new chapters on arithmetic topology and quantum arithmetic      Arithmetic

Noncommutative Geometry Matilde Marcolli,2005 Arithmetic Noncommutative Geometry uses ideas and tools from noncommutative geometry to address questions in a new way and to reinterpret results and constructions from number theory and arithmetic algebraic geometry This general philosophy is applied to the geometry and arithmetic of modular curves and to the fibers at Archimedean places of arithmetic surfaces and varieties Noncommutative geometry can be expected to say something about topics of arithmetic interest because it provides the right framework for which the tools of geometry continue to make sense on spaces that are very singular and apparently very far from the world of algebraic varieties This provides a way of refining the boundary structure of certain classes of spaces that arise in the context of arithmetic geometry With a foreword written by Yuri Manin and a brief introduction to noncommutative geometry this book offers a comprehensive account of the cross fertilization between two important areas noncommutative geometry and number theory It is suitable for graduate students and researchers interested in these areas      **An Invitation to**

**Noncommutative Geometry** Masoud Khalkhali,Matilde Marcolli,2008 This is the first existing volume that collects lectures on this important and fast developing subject in mathematics The lectures are given by leading experts in the field and the range of topics is kept as broad as possible by including both the algebraic and the differential aspects of noncommutative geometry as well as recent applications to theoretical physics and number theory      **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

**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

*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

**An Introduction to Noncommutative Spaces and Their Geometries** Giovanni Landi, 2003-07-01 These lecture notes are an introduction to several ideas and applications of noncommutative geometry It starts with a not necessarily commutative but associative algebra which is thought of as the algebra of functions on some virtual noncommutative space Attention is

switched from spaces which in general do not even exist to algebras of functions In these notes particular emphasis is put on seeing noncommutative spaces as concrete spaces namely as a collection of points with a topology The necessary mathematical tools are presented in a systematic and accessible way and include among other things C algebras module theory and K theory spectral calculus forms and connection theory Application to Yang Mills fermionic and gravity models are described Also the spectral action and the related invariance under automorphism of the algebra is illustrated Some recent work on noncommutative lattices is presented These lattices arose as topologically nontrivial approximations to continuum topological spaces They have been used to construct quantum mechanical and field theory models alternative models to lattice gauge theory with nontrivial topological content This book will be essential to physicists and mathematicians with an interest in noncommutative geometry and its uses in physics

**Quantum Groups and Noncommutative Geometry** Yuri I. Manin, 2018-10-11 This textbook presents the second edition of Manin's celebrated 1988 Montreal lectures which influenced a new generation of researchers in algebra to take up the study of Hopf algebras and quantum groups In this expanded write up of those lectures Manin systematically develops an approach to quantum groups as symmetry objects in noncommutative geometry in contrast to the more deformation oriented approach due to Faddeev Drinfeld and others This new edition contains an extra chapter by Theo Raedschelders and Michel Van den Bergh surveying recent work that focuses on the representation theory of a number of bi and Hopf algebras that were first introduced in Manin's lectures and have since gained a lot of attention Emphasis is placed on the Tannaka Krein formalism which further strengthens Manin's approach to symmetry and moduli objects in noncommutative geometry

**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

Operator Algebras, Quantization, and Noncommutative Geometry Robert S. Doran, Richard V. Kadison, 2004 John von Neumann and Marshall Stone were two giants of Twentieth Century mathematics In honor of the 100th anniversary of their births a mathematical celebration was organized featuring developments in fields

where both men were major influences This volume contains articles from the AMS Special Session Operator Algebras Quantization and Noncommutative Geometry A Centennial Celebration in Honor of John von Neumann and Marshall H Stone Papers range from expository and refereed and cover a broad range of mathematical topics reflecting the fundamental ideas of von Neumann and Stone Most contributions are expanded versions of the talks and were written exclusively for this volume Included among Also featured is a reprint of P R Halmos s The Legend of John von Neumann The book is suitable for graduate students and researchers interested in operator algebras and applications including noncommutative geometry

**Methods of Noncommutative Geometry for Group C\*-Algebras** Do Ngoc Diep,1999-12-06 The description of the structure of group C algebras is a difficult problem but relevant to important new developments in mathematics such as non commutative geometry and quantum groups Although a significant number of new methods and results have been obtained until now they have not been available in book form This volume provides an introduction to and presents research on the study of group C algebras suitable for all levels of readers from graduate students to professional researchers The introduction provides the essential features of the methods used In Part I the author offers an elementary overview using concrete examples of using K homology BFD functors and KK functors to describe group C algebras In Part II he uses advanced ideas and methods from representation theory differential geometry and KK theory to explain two primary tools used to study group C algebras multidimensional quantization and construction of the index of group C algebras through orbit methods The structure of group C algebras is an important issue both from a theoretical viewpoint and in its applications in physics and mathematics Armed with the background tools and research provided in Methods of Noncommutative Geometry for Group C Algebras readers can continue this work and make significant contributions to perfecting the theory and solving this problem

**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

**An Introduction to Noncommutative Differential Geometry and Its Physical Applications** J. Madore,1999-06-24 A thoroughly revised introduction to non commutative geometry *Noncommutative Geometry, Quantum Fields and Motives* Alain Connes,Matilde Marcolli, This book carries the unifying theme of the interaction among noncommutative geometry theoretical physics and number theory The detailed text co authored by Fields Medal winner Alain Connes stresses the relevance of noncommutative geometry in dealing with two

spaces space time and the space of prime numbers The book includes significantly more detail than other monographs covering similar topics **Noncommutative Spacetimes** Paolo Aschieri, 2009-07-14 There are many approaches to noncommutative geometry and to its use in physics This volume addresses the subject by combining the deformation quantization approach based on the notion of star product and the deformed quantum symmetries methods based on the theory of quantum groups The aim of this work is to give an introduction to this topic and to prepare the reader to enter the research field quickly The order of the chapters is physics first the mathematics follows from the physical motivations e g gauge field theories in order to strengthen the physical intuition The new mathematical tools in turn are used to explore further physical insights A last chapter has been added to briefly trace Julius Wess 1934 2007 seminal work in the field

**Supersymmetry and Noncommutative Geometry** Wim Beenakker, Thijs van den Broek, Walter D. Suijlekom, 2015-10-22 In this work the question whether noncommutative geometry allows for supersymmetric theories is addressed Noncommutative geometry has seen remarkable applications in high energy physics viz the geometrical interpretation of the Standard Model however such a question has not been answered in a conclusive way so far The book starts with a systematic analysis of the possibilities for so called almost commutative geometries on a 4 dimensional flat background to exhibit not only a particle content that is eligible for supersymmetry but also have a supersymmetric action An approach is proposed in which the basic building blocks of potentially supersymmetric theories and the demands for their action to be supersymmetric are identified It is then described how a novel kind of soft supersymmetry breaking Lagrangian arises naturally from the spectral action Finally the above formalism is applied to explore the existence of a noncommutative version of the minimal supersymmetric Standard Model This book is intended for mathematical theoretical physicists with an interest in the applications of noncommutative geometry to supersymmetric field theories



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