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Igor V. Nikolaev

# NONCOMMUTATIVE GEOMETRY

A FUNCTORIAL APPROACH

**STUDIES IN MATHEMATICS** 66



## **Noncommutative Geometry**

Giovanni Landi

#### **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

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

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