Geometric Models for Noncommutative Algebras (Berkeley Mathematical Lecture Notes)

da Silva, Ana Cannas

Geometric Models For Noncommutative Algebras

Louis H. Kauffman,David E. Radford,Fernando José Oliveira Souza

Geometric Models For Noncommutative Algebras:

Geometric Models for Noncommutative Algebras Ana Cannas da Silva,Alan Weinstein,1999 The volume is based on a course Geometric Models for Noncommutative Algebras taught by Professor Weinstein at Berkeley Noncommutative geometry is the study of noncommutative algebras as if they were algebras of functions on spaces for example the commutative algebras associated to affine algebraic varieties differentiable manifolds topological spaces and measure spaces In this work the authors discuss several types of geometric objects in the usual sense of sets with structure that are closely related to noncommutative algebras Central to the discussion are symplectic and Poisson manifolds which arise when noncommutative algebras are obtained by deforming commutative algebras The authors also give a detailed study of groupoids whose role in noncommutative geometry has been stressed by Connes as well as of Lie algebroids the infinitesimal approximations to differentiable groupoids Featured are many interesting examples applications and exercises The book starts with basic definitions and builds to still open questions It is suitable for use as a graduate text An extensive bibliography and index are included **Recent Advances in Noncommutative Algebra and Geometry** K. A. Brown,T. J. Hodges,M. Vancliff,J. J. Zhang,2024-05-30 This volume contains the proceedings of the conference Recent Advances and New Directions in the Interplay of Noncommutative Algebra and Geometry held from June 20 24 2022 at the University of Washington Seattle in honor of S Paul Smith s 65th birthday The articles reflect the wide interests of Smith and provide researchers and graduate students with an indispensable overview of topics of current interest Specific fields covered include noncommutative algebraic geometry representation theory Hopf algebras and quantum groups the elliptic algebras of Feigin and Odesskii Calabi Yau algebras Artin Schelter regular algebras deformation theory and Lie theory In addition to original research contributions the volume includes an introductory essay reviewing Smith s research contributions in these fields and several survey articles **Noncommutative Geometry and Representation Theory in Mathematical Physics** Jürgen Fuchs,2005 Mathematics provides a language in which to formulate the laws that govern nature It is a language proven to be both powerful and effective In the quest for a deeper understanding of the fundamental laws of physics one is led to theories that are increasingly difficult to put to the test In recent years many novel questions have emerged in mathematical physics particularly in quantum field theory Indeed several areas of mathematics have lately become increasingly influentialin physics and in turn have become influenced by developments in physics Over the last two decades interactions between mathematicians and physicists have increased enormously and have resulted in a fruitful cross fertilization of the two communities This volume contains the plenary talks fromthe international symposium on Noncommutative Geometry and Representation Theory in Mathematical Physics held at Karlstad University Sweden as a satellite conference to the Fourth European Congress of Mathematics The scope of the volume is large and its content is relevant to various scientific communities interested in noncommutative geometry and representation theory It offers a

comprehensive view of the state of affairs for these two branches of mathematical physics The book is suitablefor graduate students and researchers interested in mathematical physics **Elements of Noncommutative Geometry** Jose M. Gracia-Bondia,Joseph C. Varilly,Hector Figueroa,2013-11-27 *Geometric and Topological Methods for Quantum Field Theory* Hernan Ocampo,Eddy Pariguan,Sylvie Paycha,2010-04-29 Aimed at graduate students in physics and mathematics this book provides an introduction to recent developments in several active topics at the interface between algebra geometry topology and quantum field theory The first part of the book begins with an account of important results in geometric topology It investigates the differential equation aspects of quantum cohomology before moving on to noncommutative geometry This is followed by a further exploration of quantum field theory and gauge theory describing AdS CFT correspondence and the functional renormalization group approach to quantum gravity The second part covers a wide spectrum of topics on the borderline of mathematics and physics ranging from orbifolds to quantum indistinguishability and involving a manifold of mathematical tools borrowed from geometry algebra and analysis Each chapter presents introductory material before moving on to more advanced results The chapters are self contained and can be read independently of the rest **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 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 *Quantum Field Theory and Noncommutative Geometry* Ursula Carow-Watamura,Yoshiaki Maeda,2005-02-21 This volume reflects the growing collaboration between mathematicians and theoretical physicists to treat the foundations of quantum field theory using the mathematical tools of q deformed algebras

and noncommutative differential geometry A particular challenge is posed by gravity which probably necessitates extension of these methods to geometries with minimum length and therefore quantization of space This volume builds on the lectures and talks that have been given at a recent meeting on Quantum Field Theory and Noncommutative Geometry A considerable effort has been invested in making the contributions accessible to a wider community of readers so this volume will not only benefit researchers in the field but also postgraduate students and scientists from related areas wishing to become better acquainted with this field   Noncommutative Localization in Algebra and Topology Andrew Ranicki,2006-02-09 Noncommutative localization is a powerful algebraic technique for constructing new rings by inverting elements matrices and more generally morphisms of modules Originally conceived by algebraists notably P M Cohn it is now an important tool not only in pure algebra but also in the topology of non simply connected spaces algebraic geometry and noncommutative geometry This volume consists of 9 articles on noncommutative localization in algebra and topology by J A Beachy P M Cohn W G Dwyer P A Linnell A Neeman A A Ranicki H Reich D Sheiham and Z Skoda The articles include basic definitions surveys historical background and applications as well as presenting new results The book is an introduction to the subject an account of the state of the art and also provides many references for further material It is suitable for graduate students and more advanced researchers in both algebra and topology   *Groupoids, Inverse Semigroups, and their Operator Algebras* Alan Paterson,2012-12-06 In recent years it has become increasingly clear that there are important connections relating three concepts groupoids inverse semigroups and operator algebras There has been a great deal of progress in this area over the last two decades and this book gives a careful up to date and reasonably extensive account of the subject matter After an introductory first chapter the second chapter presents a self contained account of inverse semigroups locally compact and r discrete groupoids and Lie groupoids The section on Lie groupoids in chapter 2 contains a detailed discussion of groupoids particularly important in noncommutative geometry including the holonomy groupoids of a foliated manifold and the tangent groupoid of a manifold The representation theories of locally compact and r discrete groupoids are developed in the third chapter and it is shown that the C algebras of r discrete groupoids are the covariance C algebras for inverse semigroup actions on locally compact Hausdorff spaces A final chapter associates a universal r discrete groupoid with any inverse semigroup Six subsequent appendices treat topics related to those covered in the text The book should appeal to a wide variety of professional mathematicians and graduate students in fields such as operator algebras analysis on groupoids semigroup theory and noncommutative geometry It will also be of interest to mathematicians interested in tilings and theoretical physicists whose focus is modeling quasicrystals with tilings An effort has been made to make the book lucid and user friendly thus it should be accessible to any reader with a basic background in measure theory and functional analysis

Hopf Algebras and Generalizations Louis H. Kauffman,David E. Radford,Fernando José Oliveira Souza,2007 Hopf algebras have proved to be very interesting structures with deep connections to various areas of mathematics particularly

through quantum groups Indeed the study of Hopf algebras their representations their generalizations and the categories related to all these objects has an interdisciplinary nature It finds methods relationships motivations and applications throughout algebra category theory topology geometry quantum field theory quantum gravity and also combinatorics logic and theoretical computer science This volume portrays the vitality of contemporary research in Hopf algebras Altogether the articles in the volume explore essential aspects of Hopf algebras and some of their best known generalizations by means of a variety of approaches and perspectives They make use of quite different techniques that are already consolidated in the area of quantum algebra This volume demonstrates the diversity and richness of its subject Most of its papers introduce the reader to their respective contexts and structures through very expository preliminary sections *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 **Lectures on Algebraic Quantum Groups** Ken Brown,Ken R. Goodearl,2012-12-06 In September 2000 at the Centre de Recerca Matematica in Barcelona we pre sented a 30 hour Advanced Course on Algebraic Quantum Groups After the course we expanded and smoothed out the material presented in the lectures and inte grated it with the background material that we had prepared for the participants this volume is the result As our title implies our aim in the course and in this text is to treat selected algebraic aspects of the subject of quantum groups Sev eral of the words in the previous sentence call for some elaboration First we mean to convey several points by the term algebraic that we are concerned with algebraic objects the quantized analogues of classical algebraic objects in contrast for example to quantized versions of continuous function algebras on compact groups that we are interested in algebraic aspects of the structure of these objects and their representations in contrast for example to

applications to other areas of mathematics and that our tools will be drawn primarily from noncommutative algebra representation theory and algebraic geometry Second the term quantum groups itself This label is attached to a large and rapidly diversifying field of mathematics and mathematical physics originally launched by developments around 1980 in theoretical physics and statistical me chanics It is a field driven much more by examples than by axioms and so resists attempts at concise description but see Chapter 1 1 and the references therein **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 **Computational Noncommutative Algebra and Applications** Jim Byrnes,Gerald Ostheimer,2006-01-28 The fusion of algebra analysis and geometry and their application to real world problems have been dominant themes underlying mathematics for over a century Geometric algebras introduced and classified by Clifford in the late 19th century have played a prominent role in this effort as seen in the mathematical work of Cartan Brauer Weyl Chevelley Atiyah and Bott and in applications to physics in the work of Pauli Dirac and others One of the most important applications of geometric algebras to geometry is to the representation of groups of Euclidean and Minkowski rotations This aspect and its direct relation to robotics and vision will be discussed in several chapters of this multi authored textbook which resulted from the ASI meeting Moreover group theory beginning with the work of Burnside Frobenius and Schur has been influenced by even more general problems As a result general group actions have provided the setting for powerful methods within group theory and for the use of groups in applications to physics chemistry molecular biology and signal processing These aspects too will be covered in detail With the rapidly growing importance of and ever expanding conceptual and computational demands on signal and image processing in remote sensing computer vision medical image processing and biological signal processing and on neural and quantum computing geometric algebras and computational group harmonic analysis the topics of the book have emerged as key tools The list of authors includes many of the world s leading experts in the development of new algebraic modeling and

signal representation methodologies novel Fourier based and geometrictransforms and computational algorithms required for realizing the potential of these new application fields The intention of this textbook is share their profound wisdom with the many future stars of pure and computational noncommutative algebra A key feature of both the meeting and the book will be their presentation of problems and applications that will shape the twenty first century computational technology base

   Information Theory Models Of Instabilities In Critical Systems Rodrick Wallace,2016-08-18 The book is a unique exploration of a spectrum of unexpected analogs to psychopathologies likely to afflict real time critical systems written by a specialist in the epidemiology of mental disorders The purpose of this book is to develop a set of information theoretic statistical tools for analyzing the instabilities of real time cognitive systems at those varying scales and levels of organization with special focus on high level machine function The book should be of particular interest to both industry and academic scientists and government regulators concerned with driverless cars on intelligent roads Many of the same concerns also afflict high end automated weapons systems The book should appeal to students researchers and industrial and governmental administrators facing the design operation and maintenance of real time critical systems ranging across manufacturing facilities transportation finance and military operations   *Groupoids in Analysis, Geometry, and Physics* Arlan Ramsay,Jean Renault,2001 Groupoids often occur when there is symmetry of a nature not expressible in terms of groups Other uses of groupoids can involve something of a dynamical nature Indeed some of the main examples come from group actions It should also be noted that in many situations where groupoids have been used the main emphasis has not been on symmetry or dynamics issues While the implicit symmetry and dynamics are relevant the groupoid records mostly the structure of the space of leaves and the holonomy More generally the use of groupoids is very much related to various notions of orbit equivalance This book presents the proceedings from the Joint Summer Research Conference on Groupoids in Analysis Geometry and Physics held in Boulder CO The book begins with an introduction to ways in which groupoids allow a more comprehensive view of symmetry than is seen via groups Topics range from foliations pseudo differential operators KK theory amenability Fell bundles and index theory to quantization of Poisson manifolds Readers will find examples of important tools for working with groupoids This book is geared to students and researchers It is intended to improve their understanding of groupoids and to encourage them to look further while learning about the tools used   *Mathematical Reviews* ,2006   Introduction to Foliations and Lie Groupoids I. Moerdijk,J. Mrcun,2003-09-18 This book gives a quick introduction to the theory of foliations Lie groupoids and Lie algebroids An important feature is the emphasis on the interplay between these concepts Lie groupoids form an indispensable tool to study the transverse structure of foliations as well as their noncommutative geometry while the theory of foliations has immediate applications to the Lie theory of groupoids and their infinitesimal algebroids The book starts with a detailed presentation of the main classical theorems in the theory of foliations then proceeds to Molino s theory Lie groupoids constructing the holonomy groupoid of a foliation and finally Lie

algebroids Among other things the authors discuss to what extent Lie s theory for Lie groups and Lie algebras holds in the more general context of groupoids and algebroids Based on the authors extensive teaching experience this book contains numerous examples and exercises making it ideal for graduate students and their instructors   **Orbifolds in Mathematics and Physics** Alejandro Adem,Jack Morava,Yongbin Ruan,2002 This book publishes papers originally presented at a conference on the Mathematical Aspects of Orbifold String Theory hosted by the University of Wisconsin Madison It contains a great deal of information not fully covered in the published literature and showcases the current state of the art in orbital string theory The subject of orbifolds has a long prehistory going back to the work of Thurston and Haefliger with roots in the theory of manifolds group actions and foliations The recent explosion of activity on the topic has been powered by applications of orbifolds to moduli problems and quantum field theory The present volume presents an interdisciplinary look at orbifold problems Topics such as stacks vertex operator algebras branes groupoids K theory and quantum cohomology are discussed The book reflects the thinking of distinguished investigators working in the areas of mathematical physics algebraic geometry algebraic topology symplectic geometry and representation theory By presenting the work of a broad range of mathematicians and physicists who use and study orbifolds it familiarizes readers with the various points of view and types of results the researchers bring to the subject   **Quantum Theory, Deformation and Integrability** R. Carroll,2000-11-09 About four years ago a prominent string theorist was quoted as saying that it might be possible to understand quantum mechanics by the year 2000 Sometimes new mathematical developments make such understanding appear possible and even close but on the other hand increasing lack of experimental verification make it seem to be further distant In any event one seems to arrive at new revolutions in physics and mathematics every year This book hopes to convey some of the excitment of this period but will adopt a relatively pedestrian approach designed to illuminate the relations between quantum and classical There will be some discussion of philosophical matters such as measurement uncertainty decoherence etc but philosophy will not be emphasized generally we want to enjoy the fruits of computation based on the operator formulation of QM and quantum field theory In Chapter 1 connections of QM to deterministic behavior are exhibited in the trajectory representations of Faraggi Matone Chapter 1 also includes a review of KP theory and some preliminary remarks on coherent states density matrices etc and more on deterministic theory We develop in Chapter 4 relations between quantization and integrability based on Moyal brackets discretizations KP strings and Hirota formulas and in Chapter 2 we study the QM of embedded curves and surfaces illustrating some QM effects of geometry Chapter 3 is on quantum integrable systems quantum groups and modern deformation quantization Chapter 5 involves the Whitham equations in various roles mediating between QM and classical behavior In particular connections to Seiberg Witten theory arising in N 2 supersymmetric susy Yang Mills YM theory are discussed and we would still like to understand more deeply what is going on Thus in Chapter 5 we will try to give some conceptual background for susy gauge theories renormalization

etc from both a physical and mathematical point of view In Chapter 6 we continue the deformation quantization then by exhibiting material based on and related to noncommutative geometry and gauge theory

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