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Topics In Noncommutative Geometry Clay Mathematics Proceedings

Caterina Consani, Alain Connes



Topics In Noncommutative Geometry Clay Mathematics Proceedings:

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 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 Trincherro 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

Surveys in Noncommutative Geometry Nigel Higson, John Roe, 2006 In June 2000 the Clay Mathematics Institute organized an Instructional Symposium on Noncommutative Geometry in conjunction with the AMS IMS SIAM Joint Summer Research Conference These events were held at Mount Holyoke College in Massachusetts from June 18 to 29 2000 The Instructional Symposium consisted of several series of expository lectures which were intended to introduce key topics in noncommutative geometry to mathematicians unfamiliar with the subject Those expository lectures have been edited and are reproduced in this volume The lectures of Rosenberg and Weinberger discuss various applications of noncommutative geometry to problems in ordinary geometry and topology The lectures of Lagarias and Tretkoff discuss the Riemann hypothesis and the possible application of the methods of noncommutative geometry in number theory Higson gives an account of the residue index theorem of Connes and Moscovici Noncommutative geometry is to an unusual extent the creation of a single mathematician Alain Connes The present volume gives an extended introduction to several aspects of Connes work in this fascinating area

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

Variations on a Theme of Borel Shmuel Weinberger, 2022-12-08 Explains using examples the central role of the fundamental group in the geometry global analysis and topology of manifolds *Algebraic*

and Analytic Microlocal Analysis Michael Hitrik, Dmitry Tamarkin, Boris Tsygan, Steve Zelditch, 2018-12-19 This book presents contributions from two workshops in algebraic and analytic microlocal analysis that took place in 2012 and 2013 at Northwestern University. Featured papers expand on mini courses and talks ranging from foundational material to advanced research level papers and new applications in symplectic geometry, mathematical physics, partial differential equations and complex analysis are discussed in detail. Topics include Procesi bundles and symplectic reflection algebras, microlocal condition for non displaceability, polarized complex manifolds, nodal sets of Laplace eigenfunctions, geodesics in the space of Kähler metrics and partial Bergman kernels. This volume is a valuable resource for graduate students and researchers in mathematics interested in understanding microlocal analysis and learning about recent research in the area.

Quanta of Maths Institut des hautes études scientifiques (Paris, France), Institut de mathématiques de Jussieu, 2010 The work of Alain Connes has cut a wide swath across several areas of mathematics and physics. Reflecting its broad spectrum and profound impact on the contemporary mathematical landscape, this collection of articles covers a wealth of topics at the forefront of research in operator algebras, analysis, noncommutative geometry, topology, number theory and physics. Specific themes covered by the articles are as follows: entropy in operator algebras, regular C*-algebras of integral domains, properly infinite C*-algebras, representations of free groups and 1-cohomology, Leibniz seminorms and quantum metric spaces, von Neumann algebras, fundamental group of II_1 factors, subfactors and planar algebras, Baum-Connes conjecture and property T, equivariant K-homology, Hermitian K-theory, cyclic cohomology, local index formula and twisted spectral triples, tangent groupoid and the index theorem, noncommutative geometry and space-time spectral action principle, quantum gravity, noncommutative ADHM and instantons, non-compact spectral triples of finite volume, noncommutative coordinate algebras, Hopf algebras, Vinberg algebras, renormalization and combinatorics, motivic renormalization and singularities, cyclotomy and analytic geometry over $\mathbb{F}_1$, quantum modular forms, differential K-theory, cyclic theory and S-cohomology.

Strings and Geometry Clay Mathematics Institute. Summer School, Isaac Newton Institute for Mathematical Sciences, 2004 Contains selection of expository and research article by lecturers at the school. Highlights current interests of researchers working at the interface between string theory and algebraic supergravity, supersymmetry, D-branes, the McKay correspondence and Fourier-Mukai transform.

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

C^* -algebras Robert S. Doran, Greg Friedman, Jonathan Rosenberg, 2010-10-13 This volume contains the proceedings of an NSF CBMS Conference held at Texas Christian University in Fort Worth Texas May 18-22 2009 The papers written especially for this volume by well known mathematicians and mathematical physicists are an outgrowth of the talks presented at the conference Topics examined are highly interdisciplinary and include among many other things recent results on D brane charges in K homology and twisted K homology Yang Mills gauge theory and connections with non commutative geometry Landau Ginzburg models C algebraic non commutative geometry and ties to quantum physics and topology the rational homotopy type of the group of unitary elements in an Azumaya algebra and functoriality properties in the theory of C crossed products and fixed point algebras for proper actions An introduction written by Jonathan Rosenberg provides an instructive overview describing common themes and how the various papers in the volume are interrelated and fit together The rich diversity of papers appearing in the volume demonstrates the current interplay between superstring theory geometry topology and non commutative geometry The book will be of interest to graduate students mathematicians mathematical physicists and researchers working in these areas

Strings 2001 Atish Dabholkar, 2002 String theory sometimes called the Theory of Everything has the potential to provide answers to key questions involving quantum gravity black holes supersymmetry cosmology singularities and the symmetries of nature This multi authored book summarizes the latest results across all areas of string theory from the perspective of world renowned experts including Michael Green David Gross Stephen Hawking John Schwarz Edward Witten and others The book comes out of the Strings 2001 conference organized by the Tata Institute for Fundamental Research Mumbai India the Abdus Salam ICTP Trieste Italy and the Clay Mathematics Institute Cambridge MA USA Individual articles discuss the study of D branes black holes string dualities compactifications Calabi Yau manifolds conformal field theory noncommutative field theory string field theory and string phenomenology Numerous references provide a path to previous findings and results Written for physicists and mathematicians interested in string theory the volume is a useful resource for any graduate student or researcher working in string theory quantum field theory or related areas

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