Mathematical Physics Studies

Walter D. van Suijlekom

Noncommutative Geometry and Particle Physics



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Ali Chamseddine, Caterina Consani, Nigel Higson, Masoud Khalkhali, Henri Moscovici, Guoliang Yu

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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 Noncommutative Geometry and Particle Physics Walter van Suijlekom, 2014-07-27 This beyond the Standard Model 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 the Standard Model of Elementary Particle Physics Florian Scheck, Wend Werner, Harald Upmeier, 2014-03-12 **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 *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 Advances in Noncommutative Geometry Ali Chamseddine, Caterina Consani, Nigel Higson, Masoud topic papers 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 Noncommutative Differential Geometry and Its Applications to Physics Yoshiaki Maeda, Hitoshi Moriyoshi, Hideki Omori, Daniel Sternheimer, Tatsuya Tate, Satoshi Watamura, 2001-03-31 Noncommutative differential geometry is a new approach to classical geometry. It was originally used by Fields Medalist A Connes in the theory of foliations where it led to striking extensions of Atiyah Singer index theory It also may be applicable to hitherto unsolved geometric phenomena and physical experiments However noncommutative differential geometry was not well understood even among mathematicians Therefore an international symposium on commutative differential geometry and its applications to physics was held in Japan in July 1999 Topics covered included deformation problems Poisson groupoids operad theory quantization problems and D branes The meeting was attended by both mathematicians and physicists which resulted in interesting discussions This volume contains the refereed proceedings of this symposium Providing a state of the art overview of research in these topics this book is suitable as a source book for a seminar in noncommutative geometry and physics **Non-commutative Analysis** Palle Jorgensen, Feng Tian, 2017-01-24 This is a book to be read and worked with For a beginning graduate student this can be a valuable experience which at some points in fact leads up to recent research For such a reader there is also historical information included and many comments aiming at an overview It is inspiring and original how old material is combined and mixed with new material There is always something unexpected included in each chapter which one is thankful to see explained in this context and not only in research papers which are more difficult to

access Mathematical Reviews ClippingsThe book features new directions in analysis with an emphasis on Hilbert space mathematical physics and stochastic processes We interpret non commutative analysis broadly to include representations of non Abelian groups and non Abelian algebras emphasis on Lie groups and operator algebras C algebras and von Neumann algebras A second theme is commutative and non commutative harmonic analysis spectral theory operator theory and their applications The list of topics includes shift invariant spaces group action in differential geometry and frame theory over complete bases and their applications to engineering signal processing and multiplexing projective multi resolutions and free probability algebras The book serves as an accessible introduction offering a timeless presentation attractive and accessible to students both in mathematics and in neighboring fields Cyclic Cohomology at 40: Achievements and Future **Prospects** A. Connes, C. Consani, B. I. Dundas, M. Khalkhali, H. Moscovici, 2023-02-23 This volume contains the proceedings of the virtual conference on Cyclic Cohomology at 40 Achievements and Future Prospects held from September 27 October 1 2021 and hosted by the Fields Institute for Research in Mathematical Sciences Toronto ON Canada Cyclic cohomology since its discovery forty years ago in noncommutative differential geometry has become a fundamental mathematical tool with applications in domains as diverse as analysis algebraic K theory algebraic geometry arithmetic geometry solid state physics and quantum field theory. The reader will find survey articles providing a user friendly introduction to applications of cyclic cohomology in such areas as higher categorical algebra Hopf algebra symmetries de Rham Witt complex quantum physics etc in which cyclic homology plays the role of a unifying theme The researcher will find frontier research articles in which the cyclic theory provides a computational tool of great relevance In particular in analysis cyclic cohomology index formulas capture the higher invariants of manifolds where the group symmetries are extended to Hopf algebra actions and where Lie algebra cohomology is greatly extended to the cyclic cohomology of Hopf algebras which becomes the natural receptacle for characteristic classes In algebraic topology the cyclotomic structure obtained using the cyclic subgroups of the circle action on topological Hochschild homology gives rise to remarkably significant arithmetic structures intimately related to crystalline cohomology through the de Rham Witt complex Fontaine s theory and the Fargues Fontaine curve **Issues in Applied** Mathematics: 2013 Edition, 2013-05-01 Issues in Applied Mathematics 2013 Edition is a Scholarly Editions book that delivers timely authoritative and comprehensive information about Mathematical Physics The editors have built Issues in Applied Mathematics 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Mathematical Physics in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Applied Mathematics 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www

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