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Supersymmetry and Noncommutative Geometry

Supersymmetry And Noncommutative Geometry Springerbriefs In Mathematical Physics

Vladimir K. Dobrev



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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

Concise Encyclopedia of Supersymmetry Steven Duplij, 2005-11-07 The book is the first full size Encyclopedia which simultaneously covers such well established and modern subjects as quantum field theory supersymmetry supergravity M theory black holes and quantum gravity noncommutative geometry representation theory categories and quantum groups and their generalizations The extraordinary historical part the SUSY story more than 700 authored articles from more than 250 high level experts including Nobel Prize Winner Gerard t Hooft a detailed 50 pages Subject Article three level index and an Author index make the SUSY Encyclopedia an outstanding and indispensable book on the desk of researchers experts Ph D students specialists and professionals in modern methods of theoretical and mathematical physics

Spectral Action in Noncommutative Geometry Michał Eckstein, Bruno Iochum, 2018-12-18 What is spectral action how to compute it and what are the known examples This book offers a guided tour through the mathematical habitat of noncommutative geometry la Connes deliberately unveiling the answers to these questions After a brief preface flashing the panorama of the spectral approach a concise primer on spectral triples is given Chapter 2 is designed to serve as a toolkit for computations The third chapter offers an in depth view into the subtle links between the asymptotic expansions of traces of heat operators and meromorphic extensions of the associated spectral zeta functions Chapter 4 studies the behaviour of the spectral action under fluctuations by gauge potentials A subjective list of open problems in the field is spelled out in the fifth Chapter The book concludes with an appendix including some auxiliary tools from geometry and analysis along with examples of spectral geometries The book serves both as a compendium for researchers in the domain of noncommutative geometry and an invitation to mathematical physicists looking for new concepts

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.

Noncommutative Cosmology Matilde Marcolli, 2017-12-26. Modified gravity models play an important role in contemporary theoretical cosmology. The present book proposes a novel approach to the topic based on techniques from noncommutative geometry, especially the spectral action functional as a gravity model. The book discusses applications to early universe models and slow roll inflation models to the problem of cosmic topology to non isotropic cosmologies like mixmaster universes and Bianchi IX gravitational instantons and to multifractal structures in cosmology. Relations between noncommutative and algebro-geometric methods in cosmology is also discussed, including the occurrence of motives, periods and modular forms in spectral models of gravity.

Non-commutative Geometry and Supersymmetry Faheem Hussain, George Thompson, 1991. *Special Metrics and Supersymmetry* Luis Carlos de Andrés, 2009-02-25. All papers have been peer reviewed. This volume includes the contributions to the International Workshop on Geometry and Physics: Special Metrics and Supersymmetry held at the University of the Basque Country, Bilbao, Spain from May 29 to 31, 2008. The topics covered by the volume deal with leading aspects of algebraic and differential geometry with special emphasis to their potential applications in supersymmetry and string theories. The areas covered by the proceedings are algebraic geometry, differential geometry and mathematical physics. In greater detail they cover outstanding topics such as homological mirror symmetry, generalized Hodge theory, coassociative submanifolds, special geometric structures, geometric structures, Killing spinors, torsion geometry, string theory, supersymmetry and T duality among others.

Noncommutative Spacetimes Paolo Aschieri, Marija Dimitrijevic, Petr Kulish, Fedele Lizzi, Julius Wess, 2009-07-07. There are many approaches to noncommutative geometry and its use in physics: the operator algebra and C*-algebra, one the deformation quantization, one the quantum group, one and the matrix algebra, fuzzy geometry, one. This volume introduces and develops the subject by presenting in particular the ideas and methods recently pursued by Julius Wess and his group. These methods combine 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 merging of these two techniques has proven very fruitful in order to formulate new theories on noncommutative spaces. The aim of the book is to give an introduction to these topics and to prepare the reader to enter the research field himself. This has developed from the constant interest of Prof. W. Beiglboeck, editor of LNP, in this project and from the authors' experience in conferences and schools on the subject, especially from their interaction with students and young researchers. In fact, quite a few chapters in the book were written with a double purpose: on the one hand

as contributions for school or conference proceedings and on the other hand as chapters for the present book. These are now harmonized and complemented by a couple of contributions that have been written to provide a wider background to widen the scope and to underline the power of our methods.

Non-commutative Geometry and Supersymmetry F. Hussain, G. Thompson, 1990

Noncommutative Geometry and the Standard Model of Elementary Particle Physics Florian Scheck, Wend Werner, Harald Upmeyer, 2002-11-26 The outcome of a close collaboration between mathematicians and mathematical physicists these Lecture Notes present the foundations of A Connes noncommutative geometry as well as its applications in particular to the field of theoretical particle physics. The coherent and systematic approach makes this book useful for experienced researchers and postgraduate students alike.

Noncommutative Geometry and Particle Physics Walter van Suijlekom, 2014-08-04 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.

Supersymmetry for Mathematicians: An Introduction V. S. Varadarajan, 2004 An special feature of the book is the treatment in depth of the theory of spinors in all dimensions and signatures which is the basis of all developments of supergeometry both in physics and mathematics especially in quantum field theory and supergravity. Jacket

Advances in Geometry and Lie Algebras from Supergravity Pietro Giuseppe Frè, 2019-01-30 This book aims to provide an overview of several topics in advanced differential geometry and Lie group theory all of them stemming from mathematical problems in supersymmetric physical theories. It presents a mathematical illustration of the main development in geometry and symmetry theory that occurred under the fertilizing influence of supersymmetry, supergravity. The contents are mainly of mathematical nature but each topic is introduced by historical information and enriched with motivations from high energy physics which help the reader in getting a deeper comprehension of the subject.

Supersymmetry in Mathematics and Physics Sergio Ferrara, Rita Fiorese, Veeravalli Seshadri Varadarajan, 2011-08-31 Supersymmetry was created by the physicists in the 1970s to give a unified treatment of fermions and bosons, the basic constituents of matter. Since then its mathematical structure has been recognized as that of a new development in geometry and mathematicians have busied themselves with exploring this

aspect This volume collects recent advances in this field both from a physical and a mathematical point of view with an accent on a rigorous treatment of the various questions raised Supersymmetry in Mathematics and Physics Sergio Ferrara,Rita Fiorese,V.S. Varadarajan,2011-08-27 Supersymmetry was created by the physicists in the 1970 s to give a unified treatment of fermions and bosons the basic constituents of matter Since then its mathematical structure has been recognized as that of a new development in geometry and mathematicians have busied themselves with exploring this aspect This volume collects recent advances in this field both from a physical and a mathematical point of view with an accent on a rigorous treatment of the various questions raised Supersymmetric Mechanics - Vol. 1 Stefano Bellucci,2010-11-22 This is the first volume in a series of books on the general theme of Supersymmetric Mechanics the series is based on lectures and discussions held in 2005 and 2006 at the INFN Laboratori Nazionali di Frascati The selected topics include supersymmetry and supergravity the attractor mechanism black holes fluxes noncommutative mechanics super Hamiltonian formalism and matrix models Incorporates in extensive write ups the results of animated discussion sessions which followed the individual lectures Supersymmetry Vladimir K. Dobrev,2018-09-24 With applications in quantum field theory general relativity and elementary particle physics this four volume work studies the invariance of differential operators under Lie algebras quantum groups and superalgebras This third volume covers supersymmetry including detailed coverage of conformal supersymmetry in four and some higher dimensions furthermore quantum superalgebras are also considered Contents Lie superalgebras Conformal supersymmetry in 4D Examples of conformal supersymmetry for D 4 Quantum superalgebras

Integrability, Supersymmetry and Coherent States Şengül Kuru,Javier Negro,Luis M. Nieto,2019-07-12 This volume shares and makes accessible new research lines and recent results in several branches of theoretical and mathematical physics among them Quantum Optics Coherent States Integrable Systems SUSY Quantum Mechanics and Mathematical Methods in Physics In addition to a selection of the contributions presented at the 6th International Workshop on New Challenges in Quantum Mechanics Integrability and Supersymmetry held in Valladolid Spain 27 30 June 2017 several high quality contributions from other authors are also included The conference gathered 60 participants from many countries working in different fields of Theoretical Physics and was dedicated to Prof V ronique Hussin an internationally recognized expert in many branches of Mathematical Physics who has been making remarkable contributions to this field since the 1980s The reader will find interesting reviews on the main topics from internationally recognized experts in each field as well as other original contributions all of which deal with recent applications or discoveries in the aforementioned areas

Supersymmetry in Mathematics and Physics Sergio Ferrara,Rita Fiorese,Veeravalli Seshadri Varadarajan,2011-08-28 Supersymmetry was created by the physicists in the 1970 s to give a unified treatment of fermions and bosons the basic constituents of matter Since then its mathematical structure has been recognized as that of a new development in geometry and mathematicians have busied themselves with exploring this aspect This volume collects recent advances in this field both

from a physical and a mathematical point of view with an accent on a rigorous treatment of the various questions raised

Essays on Supersymmetry C. Fronsdal, M. Flato, T. Hirai, 2012-12-06 to our own also needs to be understood Such unification may also require that the supersymmetry group possess irreducible representations with infinite reduction on the Poincare subgroup to accommodate an infinite set of particles Such possibilities were envisaged long ago and have recently reappeared in Kaluza Klein 6 d th 7 S l th supergravity and in superstring theory Supersymmetry implies that forces that are mediated by boson exchange must be complemented by forces that are due to the exchange of fermions The masslessness of neutrinos is suggestive we continue to favor the idea that neutrinos are fundamental to weak interactions that they will finally play a more central role than the bit part assigned to them in Weinberg Salam theory There seems to be little room for doubting that supersymmetry is badly broken so where should one be looking for the first tangible manifestations of it It is remarkable that the successes that can be legitimately claimed for supersymmetry are all in the domain of massless particles and fields Supergravity is not renormalizable but it is an improvement in this respect over ordinary quantum gravity Finite super Yang Mills theories are not yet established but there is now a strong consensus that they soon will be In both cases massless fields are involved in an essential way

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