MATHEMATICS: THEORY & APPLICATIONS

DIRAC OPERATORS IN REPRESENTATION THEORY

JING-SONG HUANG AND PAVLE PANDŽIĆ

BIRKHÄUSER

Dirac Operators In Representation Theory Mathematics Theory Applications

Jia-Arng Chao,Wojbor Andrzej Woyczyński

Dirac Operators In Representation Theory Mathematics Theory Applications:

Dirac Operators in Representation Theory Jing-Song Huang,Pavle Pandzic,2008-11-01 This book presents a comprehensive treatment of important new ideas on Dirac operators and Dirac cohomology Using Dirac operators as a unifying theme the authors demonstrate how some of the most important results in representation theory fit together when viewed from this perspective The book is an excellent contribution to the mathematical literature of representation theory and this self contained exposition offers a systematic examination and panoramic view of the subject The material will be of interest to researchers and graduate students in representation theory differential geometry and physics *Symmetry: Representation Theory and Its Applications* Roger Howe,Markus Hunziker,Jeb F. Willenbring,2015-01-04 Nolan Wallach s mathematical research is remarkable in both its breadth and depth His contributions to many fields include representation theory harmonic analysis algebraic geometry combinatorics number theory differential equations Riemannian geometry ring theory and quantum information theory The touchstone and unifying thread running through all his work is the idea of symmetry This volume is a collection of invited articles that pay tribute to Wallach s ideas and show symmetry at work in a large variety of areas The articles predominantly expository are written by distinguished mathematicians and contain sufficient preliminary material to reach the widest possible audiences Graduate students mathematicians and physicists interested in representation theory and its applications will find many gems in this volume that have not appeared in print elsewhere Contributors D Barbasch K Baur O Bucicovschi B Casselman D Ciubotaru M Colarusso P Delorme T Enright W T Gan A Garsia G Gour B Gross J Haglund G Han P Harris J Hong R Howe M Hunziker B Kostant H Kraft D Meyer R Miatello L Ni G Schwarz L Small D Vogan N Wallach J Wolf G Xin O Yacobi **Affine, Vertex and W-algebras** Dražen Adamović,Paolo Papi,2019-11-28 This book focuses on recent developments in the theory of vertex algebras with particular emphasis on affine vertex algebras affine W algebras and W algebras appearing in physical theories such as logarithmic conformal field theory It is widely accepted in the mathematical community that the best way to study the representation theory of affine Kac Moody algebras is by investigating the representation theory of the associated affine vertex and W algebras In this volume this general idea can be seen at work from several points of view Most relevant state of the art topics are covered including fusion relationships with finite dimensional Lie theory permutation orbifolds higher Zhu algebras connections with combinatorics and mathematical physics The volume is based on the INdAM Workshop Affine Vertex and W algebras held in Rome from 11 to 15 December 2017 It will be of interest to all researchers in the field **Noncommutative Geometry and Global Analysis** Henri Moscovici,2011 This volume represents the proceedings of the conference on Noncommutative Geometric Methods in Global Analysis held in honor of Henri Moscovici from June 29 July 4 2009 in Bonn Germany Henri Moscovici has made a number of major contributions to noncommutative geometry global analysis and representation theory This volume which includes articles by some of the leading experts in these fields provides a panoramic view of the

interactions of noncommutative geometry with a variety of areas of mathematics It focuses on geometry analysis and topology of manifolds and singular spaces index theory group representation theory connections of noncommutative geometry with number theory and arithmetic geometry Hopf algebras and their cyclic cohomology **Lie Groups, Number Theory, and Vertex Algebras** Dražen Adamović,Andrej Dujella,Antun Milas,Pavle Pandžić,2021-05-10 This volume contains the proceedings of the conference Representation Theory XVI held from June 25 29 2019 in Dubrovnik Croatia The articles in the volume address selected aspects of representation theory of reductive Lie groups and vertex algebras and are written by prominent experts in the field as well as junior researchers The three main topics of these articles are Lie theory number theory and vertex algebras **Analysis On Fock Spaces And Mathematical Theory Of Quantum Fields: An Introduction To Mathematical Analysis Of Quantum Fields (Second Edition)** Asao Arai,2024-09-03 This book provides a comprehensive introduction to Fock space theory and its applications to mathematical quantum field theory The first half of the book Part I is devoted to detailed descriptions of analysis on abstract Fock spaces full Fock space boson Fock space fermion Fock space and boson fermion Fock space It includes the mathematics of second quantization representation theory of canonical commutation and anti commutation relations Bogoliubov transformations infinite dimensional Dirac operators and supersymmetric quantum field in an abstract form The second half of the book Part II covers applications of the mathematical theories in Part I to quantum field theory Four kinds of free quantum fields are constructed and detailed analyses are made A simple interacting quantum field model called the van Hove Miyatake model is fully analyzed in an abstract form Moreover a list of interacting quantum field models is presented and an introductory description to each model is given In this second edition a new chapter Chapter 15 is added to describe a mathematical theory of spontaneous symmetry breaking which is an important subject in modern quantum physics This book is a good introductory text for graduate students in mathematics or physics who are interested in the mathematical aspects of quantum field theory It is also well suited for self study providing readers a firm foundation of knowledge and mathematical techniques for more advanced books and current research articles in the field of mathematical analysis on quantum fields Numerous problems are added to aid readers in developing a deeper understanding of the field *Lie Groups, Geometry, and Representation Theory* Victor G. Kac,Vladimir L. Popov,2018-12-12 This volume dedicated to the memory of the great American mathematician Bertram Kostant May 24 1928 February 2 2017 is a collection of 19 invited papers by leading mathematicians working in Lie theory representation theory algebra geometry and mathematical physics Kostant s fundamental work in all of these areas has provided deep new insights and connections and has created new fields of research This volume features the only published articles of important recent results of the contributors with full details of their proofs Key topics include Poisson structures and potentials A Alekseev A Berenstein B Hoffman Vertex algebras T Arakawa K Kawasetsu Modular irreducible representations of semisimple Lie algebras R Bezrukavnikov I Losev Asymptotic Hecke algebras A Braverman D Kazhdan

Tensor categories and quantum groups A Davydov P Etingof D Nikshych Nil Hecke algebras and Whittaker D modules V Ginzburg Toeplitz operators V Guillemin A Uribe Z Wang Kashiwara crystals A Joseph Characters of highest weight modules V Kac M Wakimoto Alcove polytopes T Lam A Postnikov Representation theory of quantized Gieseker varieties I Losev Generalized Bruhat cells and integrable systems J H Liu Y Mi Almost characters G Lusztig Verlinde formulas E Meinrenken Dirac operator and equivariant index P Paradan M Vergne Modality of representations and geometry of groups V L Popov Distributions on homogeneous spaces N Ressayre Reduction of orthogonal representations J P Serre Mathematical Reviews ,2007 An Introduction to Dirac Operators on Manifolds Jan Cnops,2002 Dirac operators play an important part in several domains of mathematics and mathematical physics for example index theory theory of elliptic pseudodifferential operators theory of electromagnetism particle physics and representation theory of Lie groups In this work the basic theories underlying the concept of Dirac operators are explored Starting with the requisite material on Clifford algebras and differential geometry the text focuses on the two main properties of Dirac operators conformal invariance which determines the local behavior of the operator and the unique continuation property dominating global behavior Spin groups and spin or bundles are covered as well as the relations with their classical counterparts orthogonal groups and Clifford bundles The chapters on Clifford algebra and the fundamentals of differential geometry can be used as an introduction to the above topics and are suitable for senior undergraduates and graduates The other chapters are also accessible at this level Thus this self contained book requires very little previous knowledge of the domains covered although the reader will benefit from knowledge of complex analysis which gi **Grants and Awards for the Fiscal Year Ended ...** National Science Foundation (U.S.),1980 *Representation Theory of Groups and Algebras* Jeffrey Adams,1993 Touching on virtually every important topic in modern representation theory this book contains proceedings of the activities of the Representation Theory Group at the University of Maryland at College Park during the years 1989 1992 Covered here are the latest results in the field providing a readable introduction to the work of some of the best young researchers in representation theory The book spans a very broad spectrum for example within real representation theory both semisimple and nonsemisimple analysis are discussed within C algebras both geometric and nongeometric approaches are studied In addition the articles are exceptionally well written and range from research papers aimed at specialists to expository articles accessible to graduate students *Operator Theory, Operator Algebras and Applications* William Arveson,1990 Operator theory has come of age during the last twenty years The subject has developed in several directions using new and powerful methods that have led to the solution of basic problems previously thought to be inaccessible In addition operator theory has had fundamental connections with a range of other mathematical topics For example operator theory has made mutually enriching contacts with other areas of mathematics such as algebraic topology and index theory complex analysis and probability theory The algebraic methods employed in operator theory are diverse and touch upon a broad area of mathematics There have been

direct applications of operator theory to systems theory and statistical mechanics And significant problems and motivations have arisen from the subject s traditional underpinnings for partial differential equations This two volume set contains the proceedings of an AMS Summer Institute on Operator Theory Operator Algebras held in July 1988 at the University of New Hampshire The Institute sought to summarize progress and examine the common points of view that now run through the subject With contributions from some of the top experts in the field this publication illuminates a broad range of current research topics in operator theory Operator Algebras and Their Connections with Topology and Ergodic Theory Huzihiro Araki,Calvin C. Moore,Serban-Valentin Stratila,Dan-Virgil Voiculescu,1985-06 **Bulletin (new Series) of the American Mathematical Society** ,1994 Bulletin of the American Mathematical Society ,1994 *Notices of the American Mathematical Society* American Mathematical Society,1994 Journal of analysis and its application ,2004 **Dirac Operators in Analysis** John Ryan,Daniele C Struppa,1999-01-06 Clifford analysis has blossomed into an increasingly relevant and fashionable area of research in mathematical analysis it fits conveniently at the crossroads of many fundamental areas of research including classical harmonic analysis operator theory and boundary behavior This book presents a state of the art account of the most recent developments in the field of Clifford analysis with contributions by many of the field s leading researchers **Probability Theory and Harmonic Analysis** Jia-Arng Chao,Wojbor Andrzej Woyczyński,1986 *Balkan Journal of Geometry and Its Applications* ,2004

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