DIRAC OPERATORS
IN
REPRESENTATION THEORY

JING-SONG HUANG AND PAVLE PANDŽIĆ

Dirac Operators In Representation Theory Mathematics Theory Applications

Alexey N. Karapetyants,Vladislav V. Kravchenko,Elijah Liflyand,Helmuth R. Malonek

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  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   *Lie Theory and Its Applications in Physics* Vladimir Dobrev,2016-12-10 This volume presents modern trends in the area of symmetries and their applications based on contributions from the workshop Lie Theory and Its Applications in Physics held near Varna Bulgaria in June 2015 Traditionally Lie theory is a tool to build mathematical models for physical systems Recently the trend has been towards geometrization of the mathematical description of physical systems and objects A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure Geometrization and symmetries are employed in their widest sense embracing representation theory algebraic geometry number theory infinite dimensional Lie algebras and groups superalgebras and supergroups groups and quantum groups noncommutative geometry symmetries of linear and nonlinear partial differential operators PDO special functions and others Furthermore the necessary tools from functional analysis are included div This is a large interdisciplinary and interrelated field and the present volume is suitable for a broad audience of mathematicians mathematical physicists and theoretical physicists including researchers and graduate students interested in Lie Theory   *Clifford Algebras and Dirac Operators in Harmonic Analysis* John E. Gilbert,M. Murray,1991-07-26 The aim of this book is to unite the seemingly disparate topics of Clifford algebras analysis on manifolds

and harmonic analysis The authors show how algebra geometry and differential equations play a more fundamental role in Euclidean Fourier analysis They then link their presentation of the Euclidean theory naturally to the representation theory of semi simple Lie groups *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 **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 Connected at infinity II: a selection of mathematics by Indians Rajendra Bhatia,C.S. Rajan,Ajit Iqbal Singh,2013-01-01 Operator and Matrix Theory, Function Spaces, and Applications Marek Ptak,Hugo J. Woerdeman,Michał Wojtylak,2024-04-02 This volume features presentations from the International Workshop on Operator Theory and its Applications that was held in Krak w Poland September 6 10 2022 The volume reflects the wide interests of

the participants and contains original research papers in the active areas of Operator Theory These interests include weighted Hardy spaces geometry of Banach spaces dilations of the tetrablock contractions Toeplitz and Hankel operators symplectic Dirac operator pseudodifferential and differential operators singular integral operators non commutative probability quasi multipliers Hilbert transform small rank perturbations spectral constants Banach Lie groupoids reproducing kernels and the Kippenhahn curve The volume includes contributions by a number of the world s leading experts and can therefore be used as an introduction to the currently active research areas in operator theory *Riesz Transforms, Hodge-Dirac Operators and Functional Calculus for Multipliers* Cédric Arhancet,Christoph Kriegler,2022-05-05 This book on recent research in noncommutative harmonic analysis treats the Lp boundedness of Riesz transforms associated with Markovian semigroups of either Fourier multipliers on non abelian groups or Schur multipliers The detailed study of these objects is then continued with a proof of the boundedness of the holomorphic functional calculus for Hodge Dirac operators thereby answering a question of Junge Mei and Parcet and presenting a new functional analytic approach which makes it possible to further explore the connection with noncommutative geometry These Lp operations are then shown to yield new examples of quantum compact metric spaces and spectral triples The theory described in this book has at its foundation one of the great discoveries in analysis of the twentieth century the continuity of the Hilbert and Riesz transforms on Lp In the works of Lust Piquard 1998 and Junge Mei and Parcet 2018 it became apparent that these Lp operations can be formulated on Lp spaces associated with groups Continuing these lines of research the book provides a self contained introduction to the requisite noncommutative background Covering an active and exciting topic which has numerous connections with recent developments in noncommutative harmonic analysis the book will be of interest both to experts in no commutative Lp spaces and analysts interested in the construction of Riesz transforms and Hodge Dirac operators **From Representation Theory to Mathematical Physics and Back** Mikhail Khovanov,Joshua Sussan,Anton Zeitlin,2025-05-14 This volume is a proceedings of a workshop at the Simons Center for Geometry and Physics from May 31 June 4 2022 The workshop highlighted progress in the areas of vertex operator algebras conformal field theory categorification low dimensional topology and representation theory of affine Lie algebras loop groups and quantum groups In the past 40 years string theory gave rise to the mathematical theory of vertex operator algebras which led to the construction of representations of affine Lie algebras and the Moonshine module of the Monster group These mathematical constructions have in turn led to ideas about 3 dimensional quantum gravity In another direction the discovery of the Jones polynomial led to a physical construction of 3 dimensional topological quantum field theories TQFTs which in turn advanced many mathematical developments in quantum groups and low dimensional topology Louis Crane and Igor Frenkel introduced the categorification program with the goal of upgrading 3 dimensional TQFTs coming from representation theory of quantum groups to 4 dimensional TQFTs This idea gave rise to the development of link homologies constructed from representation theoretic algebraic geometric combinatorial

and physical structures Articles in this volume present both classical and new results related to these topics They will be interesting to researchers and graduate students working in mathematical aspects of modern quantum field theory   Lie Theory And Its Applications In Physics - Proceedings Of An International Workshop Vladimir K Dobrev,Heinz-dietrich Doebner,Joachim Hilgert,1996-10-16 There is an apparent trend towards geometrization of physical theories During the last 20 years the most successful mathematical models for the description and understanding of physical systems have been based on the Lie theory in its widest sense and various generalizations for example deformations of it This proceedings volume reflects part of the development On the mathematical side they report on representations of Lie algebras quantization procedures non commutative geometry quantum groups etc Furthermore possible physical applications of these techniques are discussed e g quantization of classical systems derivations of evolution equations discrete and deformed physical systems This volume complements the book Generalized Symmetries in Physics published by World Scientific in 1994   **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   **Representations of Reductive Groups** Monica Nevins,Peter E. Trapa,2015-12-18 Over the last forty years David Vogan has left an indelible imprint on the representation theory of reductive groups His groundbreaking ideas have lead to deep advances in the theory of real and p adic groups and have forged lasting connections with other subjects including number theory automorphic forms algebraic geometry and combinatorics Representations of Reductive Groups is an outgrowth of the conference of the same name dedicated to David Vogan on his 60th birthday which took place at MIT on May 19 23 2014 This volume highlights the depth and breadth of Vogan s influence over the subjects mentioned above and point to many exciting new directions that remain to be explored Notably the first article by McGovern

and Trapa offers an overview of Vogan s body of work placing his ideas in a historical context Contributors Pramod N Achar Jeffrey D Adams Dan Barbasch Manjul Bhargava C dric Bonnaf Dan Ciubotaru Meinolf Geck William Graham Benedict H Gross Xuhua He Jing Song Huang Toshiyuki Kobayashi Bertram Kostant Wenjing Li George Lusztig Eric Marberg William M McGovern Wilfried Schmid Kari Vilonen Diana Shelstad Peter E Trapa David A Vogan Jr Nolan R Wallach Xiaoheng Wang Geordie Williamson **Operator Theory, Operator Algebras, and Matrix Theory** Carlos André,M. Amélia Bastos,Alexei Yu. Karlovich,Bernd Silbermann,Ion Zaballa,2018-08-22 This book consists of invited survey articles and research papers in the scientific areas of the International Workshop on Operator Algebras Operator Theory and Applications which was held in Lisbon in July 2016 Reflecting recent developments in the field of algebras of operators operator theory and matrix theory it particularly focuses on groupoid algebras and Fredholm conditions algebras of approximation sequences C algebras of convolution type operators index theorems spectrum and numerical range of operators extreme supercharacters of infinite groups quantum dynamics and operator algebras and inverse eigenvalue problems Establishing bridges between the three related areas of operator algebras operator theory and matrix theory the book is aimed at researchers and graduate students who use results from these areas *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 *Group Representations, Ergodic Theory, and Mathematical Physics* Robert S. Doran,Calvin C. Moore,Robert J. Zimmer,2008 George Mackey was an extraordinary mathematician of great power and vision His profound contributions to representation theory harmonic analysis ergodic theory and mathematical physics left a rich legacy for

researchers that continues today This book is based on lectures presented at an AMS special session held in January 2007 in New Orleans dedicated to his memory The papers written especially for this volume by internationally known mathematicians and mathematical physicists range from expository and historical surveys to original high level research articles The influence of Mackey s fundamental ideas is apparent throughout The introductory article contains recollections from former students friends colleagues and family as well as a biography describing his distinguished career as a mathematician at Harvard where he held the Landon D Clay Professorship of Mathematics   Counterexamples in Operator Theory Mohammed Hichem Mortad,2022-05-03 This text is the first of its kind exclusively devoted to counterexamples in operator theory and includes over 500 problems on bounded and unbounded linear operators in Hilbert spaces This volume is geared towards graduate students studying operator theory and the author has designated the difficulty level for each counterexample indicating which ones are also suitable for advanced undergraduate students The first half of the book focuses on bounded linear operators including counterexamples in the areas of operator topologies matrices of bounded operators square roots the spectrum operator exponentials and non normal operators The second part of the book is devoted to unbounded linear operators in areas such as closedness and closability self adjointness normality commutativity and the spectrum concluding with a chapter that features some open problems Chapters begin with a brief Basics section for the readers reference and many of the counterexamples included are the author s original work Counterexamples in Operator Theory can be used by students in graduate courses on operator theory and advanced matrix theory Previous coursework in advanced linear algebra operator theory and functional analysis is assumed Researchers quantum physicists and undergraduate students studying functional analysis and operator theory will also find this book to be a useful reference

Operator Theory and Harmonic Analysis Alexey N. Karapetyants,Vladislav V. Kravchenko,Elijah Liflyand,Helmuth R. Malonek,2021-09-27 This volume is part of the collaboration agreement between Springer and the ISAAC society This is the first in the two volume series originating from the 2020 activities within the international scientific conference Modern Methods Problems and Applications of Operator Theory and Harmonic Analysis OTHA Southern Federal University in Rostov on Don Russia This volume is focused on general harmonic analysis and its numerous applications The two volumes cover new trends and advances in several very important fields of mathematics developed intensively over the last decade The relevance of this topic is related to the study of complex multiparameter objects required when considering operators and objects with variable parameters

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