

CONTEMPORARY MATHEMATICS

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Representations of Algebraic Groups, Quantum Groups and Lie Algebras

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American Mathematical Society

Representations Of Lie Groups And Quantum Groups

Victor G. Kac, Vladimir L. Popov



Representations Of Lie Groups And Quantum Groups:

Representation of Lie Groups and Special Functions N.Ja. Vilenkin, A.U. Klimyk, 2013-04-18 This is the last of three major volumes which present a comprehensive treatment of the theory of the main classes of special functions from the point of view of the theory of group representations This volume deals with q analogs of special functions quantum groups and algebras including Hopf algebras and representations of semi simple Lie groups Also treated are special functions of a matrix argument representations in the Gel'fand-Tsetlin basis and finally modular forms theta functions and affine Lie algebras The volume builds upon results of the previous two volumes and presents many new results Subscribers to the complete set of three volumes will be entitled to a discount of 15% **Quantum Groups and Their Representations** Anatoli

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Ulianovich Klimyk, 1991 **Quantum Groups and Lie Theory** Andrew Pressley, 2002-01-17 Since its genesis in the early 1980s the subject of quantum groups has grown rapidly By the late 1990s most of the foundational issues had been resolved and many of the outstanding problems clearly formulated To take stock and to discuss the most fruitful directions for future research many of the world's leading figures in this area met at the Durham Symposium on Quantum Groups in the summer of 1999 and this volume provides an excellent overview of the material presented there It includes important surveys of both cyclotomic Hecke algebras and the dynamical Yang-Baxter equation Plus contributions which treat the construction and classification of quantum groups or the associated solutions of the quantum Yang-Baxter equation The representation theory of quantum groups is discussed as is the function algebra approach to quantum groups and there is a new look at the origins of quantum groups in the theory of integrable systems **Multidimensional Hypergeometric Functions The**

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Introduction to Quantum Groups George Lusztig, 2010-10-27 The quantum groups discussed in this book are the quantized enveloping algebras introduced by Drinfeld and Jimbo in 1985 or variations thereof The theory of quantum groups has led to a new extremely rigid structure in which the objects of the theory are provided with canonical basis with rather remarkable properties This book will be of interest to mathematicians working in the representation theory of Lie groups and Lie algebras knot theorists and to theoretical physicists and graduate students Since large parts of the book are independent of the theory of perverse sheaves the book could also be used as a text book

Noncompact Lie Groups and Some of Their Applications Elizabeth A. Tanner, R. Wilson, 2012-12-06 During the past two decades representations of noncompact Lie groups and Lie algebras have been studied extensively and their application to other branches of mathematics and to physical sciences has increased enormously Several theorems which were proved in the abstract now carry definite mathematical and physical significance Several physical observations which were not understood before are now explained in terms of models based on new group theoretical structures such as dynamical groups and Lie supergroups The workshop was designed to bring together those mathematicians and mathematical physicists who are actively working in this broad spectrum of research and to provide them with the opportunity to present their recent results and to discuss the challenges facing them in the many problems that remain The objective of the workshop was indeed well achieved This book contains 31 lectures presented by invited participants attending the NATO Advanced Research Workshop held in San Antonio Texas during the week of January 3-8 1993 The introductory article by the editors provides a brief review of the concepts underlying these lectures cited by author and mentions some of their applications The articles in the book are grouped under the following general headings Lie groups and Lie algebras Lie superalgebras and Lie supergroups and Quantum groups and are arranged in the order in which they are cited in the introductory article We are very thankful to Dr

Lie Algebras and Their Representations Seok-Jin Kang, Myung-Hwan Kim, Insok Lee, 1996 Over the past 30 years exciting developments in diverse areas of the theory of Lie algebras and their representations have been observed The symposium covered topics such as Lie algebras and combinatorics crystal bases for quantum groups quantum groups and solvable lattice models and modular and infinite dimensional Lie algebras In this volume readers will find several excellent expository articles and research papers containing

many significant new results in this area **Representations of Lie Groups and Quantum Groups** Velleda Baldoni, M. A. Picardello, 1994 **Complex Semisimple Quantum Groups and Representation Theory** Christian Voigt, Robert Yuncken, 2020-09-24 This book provides a thorough introduction to the theory of complex semisimple quantum groups that is Drinfeld doubles of q deformations of compact semisimple Lie groups The presentation is comprehensive beginning with background information on Hopf algebras and ending with the classification of admissible representations of the q deformation of a complex semisimple Lie group The main components are a thorough introduction to quantized universal enveloping algebras over general base fields and generic deformation parameters including finite dimensional representation theory the Poincaré Birkhoff Witt Theorem the locally finite part and the Harish Chandra homomorphism the analytic theory of quantized complex semisimple Lie groups in terms of quantized algebras of functions and their duals algebraic representation theory in terms of category \mathcal{O} and analytic representation theory of quantized complex semisimple groups Given its scope the book will be a valuable resource for both graduate students and researchers in the area of quantum groups **D-modules, Representation Theory, and Quantum Groups** Louis Boutet de Monvel, Corrado de Concini, Claudio Procesi, Pierre Schapira, Michele Vergne, 2006-11-15 CONTENTS L Boutet de Monvel Indice de systemes differentiels C De Concini C Procesi Quantum groups P Schapira J P Schneiders Index theorems for R constructible sheaves and for D modules N Berline M Vergne The equivariant Chern character and index of G invariant operators

Representation of Lie Groups and Special Functions N.Ja. Vilenkin, A.U. Klimyk, 2013-04-17 In 1991 1993 our three volume book Representation of Lie Groups and Special Functions was published When we started to write that book in 1983 editors of Kluwer Academic Publishers expressed their wish for the book to be of encyclopaedic type on the subject Interrelations between representations of Lie groups and special functions are very wide This width can be explained by existence of different types of Lie groups and by richness of the theory of their representations This is why the book mentioned above spread to three big volumes Influence of representations of Lie groups and Lie algebras upon the theory of special functions is lasting This theory is developing further and methods of the representation theory are of great importance in this development When the book Representation of Lie Groups and Special Functions vol 1 3 was under preparation new directions of the theory of special functions connected with group representations appeared New important results were discovered in the traditional directions This impelled us to write a continuation of our three volume book on relationship between representations and special functions The result of our further work is the present book The three volume book published before was devoted mainly to studying classical special functions and orthogonal polynomials by means of matrix elements Clebsch Gordan and Racah coefficients of group representations and to generalizations of classical special functions that were dictated by matrix elements of representations **Lie Algebras, Cohomology, and New Applications to Quantum Mechanics** Niky Kamran, Peter J. Olver, 1994 This volume which contains a good balance of

research and survey papers presents at look at some of the current development in this extraordinarily rich and vibrant area

Representation Theory of Algebraic Groups and Quantum Groups Akihiko Gyoja, Hiraku Nakajima, Ken-ichi Shinoda, Toshiaki Shoji, Toshiyuki Tanisaki, 2010-11-25 Invited articles by top notch experts Focus is on topics in representation theory of algebraic groups and quantum groups Of interest to graduate students and researchers in representation theory group theory algebraic geometry quantum theory and math physics

Multidimensional Hypergeometric Functions and Representation Theory of Lie Algebras and Quantum Groups Aleksandr Nikolaevich Varchenko, 1995 This book recounts the connections between multidimensional hypergeometric functions and representation theory In 1984 physicists Knizhnik and Zamolodchikov discovered a fundamental differential equation describing correlation functions in conformal field theory The equation is defined in terms of a Lie algebra Kohno and Drinfeld found that the monodromy of the differential equation is described in terms of the quantum group associated with the Lie algebra It turns out that this phenomenon is the tip of the iceberg The Knizhnik Zamolodchikov differential equation is solved in multidimensional hypergeometric functions and the hypergeometric functions yield the connection between the representation theories of Lie algebras and quantum groups The topics presented in this book are not adequately covered in periodicals

Representations of Finite Dimensional Algebras and Related Topics in Lie Theory and Geometry Vlastimil Dlab, Claus Michael Ringel, These proceedings are from the Tenth International Conference on Representations of Algebras and Related Topics ICRA X held at The Fields Institute In addition to the traditional instructional workshop preceding the conference there were also workshops on Commutative Algebra Algebraic Geometry and Representation Theory Finite Dimensional Algebras Algebraic Groups and Lie Theory and Quantum Groups and Hall Algebras These workshops reflect the latest developments and the increasing interest in areas that are closely related to the representation theory of finite dimensional associative algebras Although these workshops were organized separately their topics are strongly interrelated The workshop on Commutative Algebra Algebraic Geometry and Representation Theory surveyed various recently established connections such as those pertaining to the classification of vector bundles or Cohen Macaulay modules over Noetherian rings coherent sheaves on curves or ideals in Weyl algebras In addition methods from algebraic geometry or commutative algebra relating to quiver representations and varieties of modules were presented The workshop on Finite Dimensional Algebras Algebraic Groups and Lie Theory surveyed developments in finite dimensional algebras and infinite dimensional Lie theory especially as the two areas interact and may have future interactions The workshop on Quantum Groups and Hall Algebras dealt with the different approaches of using the representation theory of quivers and species in order to construct quantum groups working either over finite fields or over the complex numbers In particular these proceedings contain a quite detailed outline of the use of perverse sheaves in order to obtain canonical bases The book is recommended for graduate students and researchers in algebra and geometry

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

Quantum Group Symmetry And Q-tensor Algebras Lawrence C Biedenharn, Max A Lohe, 1995-08-31 Quantum groups are a generalization of the classical Lie groups and Lie algebras and provide a natural extension of the concept of symmetry fundamental to physics This monograph is a survey of the major developments in quantum groups using an original approach based on the fundamental concept of a tensor operator Using this concept properties of both the algebra and co algebra are developed from a single uniform point of view which is especially helpful for understanding the noncommuting coordinates of the quantum plane which we interpret as elementary tensor operators Representations of the q deformed angular momentum group are discussed including the case where q is a root of unity and general results are obtained for all unitary quantum groups using the method of algebraic induction Tensor operators are defined and discussed with examples and a systematic treatment of the important $3j$ series of operators is developed in detail This book is a good reference for graduate students in physics and mathematics

Analysis on Homogeneous Spaces and Representation Theory of Lie Groups, Okayama-Kyoto Toshiyuki Kobayashi, 2000 This volume is an outgrowth of the activities of the RIMS Research Project which presented symposia offering both individual lectures on specialized topics and expository courses on current research The subjects therein reflect very active areas in the representation theory of Lie groups Also included are various topical interactions with geometry of homogeneous spaces automorphic forms quantum groups special functions discrete groups differential equations and others Comprising results from active areas of research this volume should serve as an excellent guide to the representation theory of Lie groups

Decoding **Representations Of Lie Groups And Quantum Groups**: Revealing the Captivating Potential of Verbal Expression

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