A. Klimyk
K. Schmüdgen

Quantum Groups
and
Their Representations

Quantum Groups And Their Representations

Sergey Neshveyev,Lars Tuset

Quantum Groups And Their Representations:

Quantum Groups and Their Representations Anatoli Klimyk,Konrad Schmüdgen,2012-12-06 This book start with an introduction to quantum groups for the beginner and continues as a textbook for graduate students in physics and in mathematics It can also be used as a reference by more advanced readers The authors cover a large but well chosen variety of subjects from the theory of quantum groups quantized universal enveloping algebras quantized algebras of functions and q deformed algebras q oscillator algebras their representations and corepresentations and noncommutative differential calculus The book is written with potential applications in physics and mathematics in mind The basic quantum groups and quantum algebras and their representations are given in detail and accompanied by explicit formulas A number of topics and results from the more advanced general theory are developed and discussed **Quantum Groups and Their Representations** Anatoli Klimyk,Konrad Schmüdgen,2011-12-22 Compact Quantum Groups and Their Representation Categories Sergey Neshveyev,Lars Tuset,2013 The book provides an introduction to the theory of compact quantum groups emphasizing the role of the categorical point of view in constructing and analyzing concrete examples The general theory is developed in the first two chapters and is illustrated with a detailed analysis of free orthogonal quantum groups and the Drinfeld Jimbo q deformations of compact semisimple Lie groups The next two chapters are more specialized and concentrate on the Drinfeld Kohno theorem presented from the operator algebraic point of view This book should be accessible to students with a basic knowledge of operator algebras and semisimple Lie groups *Algebraic Groups and their Representations* R.W. Carter,J. Saxl,2012-12-06 This volume contains 19 articles written by speakers at the Advanced Study Institute on Modular representations and subgroup structure of al gebraic groups and related finite groups held at the Isaac Newton Institute Cambridge from 23rd June to 4th July 1997 We acknowledge with gratitude the financial support given by the NATO Science Committee to enable this ASI to take place Generous financial support was also provided by the European Union We are also pleased to acknowledge funds given by EPSRC to the Newton Institute which were used to support the meeting It is a pleasure to thank the Director of the Isaac Newton Institute Professor Keith Moffatt and the staff of the Institute for their dedicated work which did so much to further the success of the meeting The editors wish to thank Dr Ross Lawther and Dr Nick Inglis most warmly for their help in the production of this volume Dr Lawther in particular made an invaluable contribution in preparing the volume for submission to the publishers Finally we wish to thank the distinguished speakers at the ASI who agreed to write articles for this volume based on their lectures at the meet ing We hope that the volume will stimulate further significant advances in the theory of algebraic groups **Example of Solvable Quantum Groups and Their Representations** Calvin Lee Roth,1994 **Compact Matrix Quantum Groups and Their Combinatorics** Amaury Freslon,2023-07-27 An organised step by step introduction to the theory of compact quantum groups starting with examples coming from quantum physics which stems from the basic undergraduate mathematics

curriculum Introducing more abstract concepts along the way when needed the reader is led from the fundamentals of the theory to recent research results The emphasis is put on the combinatorics underlying compact quantum groups which is very elementary to describe but leads to profound results This book includes many exercises to help students work through new concepts and ideas and consolidate their understanding The theory itself is illustrated by an array of examples some related to other fields of Mathematics such as free probability theory or graph theory The book is intended for graduate students motivated undergraduate students and researchers **Linear Algebraic Groups and Their Representations** Richard S. Elman,Murray M. Schacher,V. S. Varadarajan,1993 Brings together a wide variety of themes under a single unifying perspective The proceedings of a conference on Linear algebraic Groups and their Representations the text gets to grips with the fundamental nature of this subject and its interaction with a wide variety of active areas in mathematics and physics   Geometry and Dynamics of Groups and Spaces Mikhail Kapranov,Sergii Kolyada,Yu. I. Manin,Pieter Moree,Leonid Potyagailo,2008-03-05 Alexander Reznikov 1960 2003 was a brilliant and highly original mathematician This book presents 18 articles by prominent mathematicians and is dedicated to his memory In addition it contains an influential so far unpublished manuscript by Reznikov of book length The book further provides an extensive survey on Kleinian groups in higher dimensions and some articles centering on Reznikov as a person   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   *Modern Trends in Algebra and Representation Theory* David Jordan,Nadia Mazza,Sibylle Schroll,2023-08-17 Aimed at graduate students and non experts this text gives a guided tour of modern developments in algebra and representation theory   **Representation Theory of Symmetric Groups** Pierre-Loic Meliot,2017-05-12 Representation Theory of Symmetric Groups is the most up to date abstract algebra book on the subject of symmetric groups and representation theory Utilizing new research and results this book can be studied from a combinatorial algorithmic or algebraic viewpoint This book is an excellent way of introducing today s students to representation theory of the symmetric groups namely classical theory From there the book explains how the theory can be extended to other related combinatorial algebras like the Iwahori Hecke algebra In a clear and concise manner the author presents the case that most calculations on symmetric group can be performed by utilizing appropriate algebras of functions Thus the book explains how some Hopf algebras symmetric functions and generalizations can be used to encode most of the combinatorial properties of the representations of symmetric groups Overall the book is an innovative introduction to representation theory of symmetric groups for graduate students and researchers seeking new ways of thought   *Algebraic*

Groups and Their Generalizations: Classical Methods William Joseph Haboush,1994 *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 sig nificance Several physical observations which were not understood before are now explained in terms of models based on new group theoretical structures such as dy namical 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 Proceedings of the International Conference on Complex Geometry and Related Fields Zhijie Chen,2007 In commemoration and celebration of the tenth anniversary of the Institute of Mathematics at East China Normal University an International Conference on complex geometry and related fields recently convened This collection presents some of the conference highlights dealing with various and significant topics of differential and algebraic geometry while exploring their connections to number theory and mathematical physics Information for our distributors Titles in this series are co published with International Press Cambridge MA *Deformation Quantization of Some Non-compact Solvable Lie Groups and Their Representation Theory* Byung-Jay Kahng,1997 **A Guide to Quantum Groups** Vyjayanthi Chari,Andrew N. Pressley,1995-07-27 Since they first arose in the 1970s and early 1980s quantum groups have proved to be of great interest to mathematicians and theoretical physicists The theory of quantum groups is now well established as a fascinating chapter of representation theory and has thrown new light on many different topics notably low dimensional topology and conformal field theory The goal of this book is to give a comprehensive view of quantum groups and their applications The authors build on a self contained account of the foundations of the subject and go on to treat the more advanced aspects concisely and with detailed references to the literature Thus this book can serve both as an introduction for the newcomer and as a guide for the more experienced reader All who have an interest in the subject will welcome this unique treatment of quantum groups **Noncommutative Rings, Group Rings, Diagram Algebras and Their Applications** Surender Kumar Jain,S. Parvathi,Dinesh Khurana,2008 Articles in this volume are based on talks given at the International Conference on Noncommutative Rings Group Rings Diagram

Algebras and Their Applications The conference provided researchers in mathematics with the opportunity to discuss new developments in these rapidly growing fields This book contains several excellent articles both expository and original with new and significant results It is suitable for graduate students and researchers interested in Ring Theory Diagram Algebras and related topics **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 Poincar 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 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 **Quantum Groups** Vladimir K. Dobrev,2017-07-10 With applications in quantum field theory general relativity and elementary particle physics this three volume work studies the invariance of differential operators under Lie algebras quantum groups and superalgebras This second volume covers quantum groups in their two main manifestations quantum algebras and matrix quantum groups The exposition covers both the general aspects of these and a great variety of concrete explicitly presented examples The invariant q difference operators are introduced mainly using representations of quantum algebras on their dual matrix quantum groups as carrier spaces This is the first book that covers the title matter applied to quantum groups Contents Quantum Groups and Quantum Algebras Highest Weight Modules over Quantum Algebras Positive Energy Representations of Noncompact Quantum Algebras Duality for Quantum Groups Invariant q Difference Operators Invariant q Difference Operators Related to GLq n q Maxwell Equations Hierarchies *Lectures on Representation Theory and Knizhnik-Zamolodchikov Equations* Pavel I. Etingof,Igor Frenkel,Alexander A. Kirillov,1998 This text is devoted to mathematical structures arising in conformal field theory and the q deformations The authors give a self contained exposition of the theory of Knizhnik Zamolodchikov equations and related topics No previous knowledge of physics is required The text is suitable for a one semester graduate course and is intended for graduate students and research mathematicians interested in mathematical physics

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