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Quantum Groups and Lie Theory

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Quantum Groups And Lie Theory

Christian Voigt, Robert Yuncken



Quantum Groups And Lie Theory:

Quantum Groups and Lie Theory Andrew Pressley, 2001 Leading researchers discuss quantum groups and integrable systems for graduates and researchers **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

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 **Introduction to Quantum Groups**

Masud Chaichian, Andrei Pavlovich Demichev, 1996 In the past decade there has been an extremely rapid growth in the interest and development of quantum group theory This book provides students and researchers with a practical introduction to the principal ideas of quantum groups theory and its applications to quantum mechanical and modern field theory problems It begins with a review of and introduction to the mathematical aspects of quantum deformation of classical groups Lie algebras and related objects algebras of functions on spaces differential and integral calculi In the subsequent chapters

the richness of mathematical structure and power of the quantum deformation methods and non commutative geometry is illustrated on the different examples starting from the simplest quantum mechanical system harmonic oscillator and ending with actual problems of modern field theory such as the attempts to construct lattice like regularization consistent with space time Poincar symmetry and to incorporate Higgs fields in the general geometrical frame of gauge theories Graduate students and researchers studying the problems of quantum field theory particle physics and mathematical aspects of quantum symmetries will find the book of interest

Modular Interfaces: Modular Lie Algebras, Quantum Groups, and Lie Superalgebras Vyjayanthi Chari, 1997 This book is a collection of papers dedicated to Richard E Block whose research has been largely devoted to the study of Lie algebras of prime characteristic specifically the classification of simple Lie algebras The volume presents proceedings of a conference held at the University of California at Riverside in February 1994 on the occasion of his retirement The conference focused on the interplay between the theory of Lie algebras of prime characteristic quantum groups and Lie superalgebras Titles in this series are co published with International Press Cambridge MA USA

Multidimensional Hypergeometric Functions The Representation Theory Of Lie Algebras And Quantum Groups Alexander Varchenko, 1995-03-29 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

Quantum Groups Pavel I. Etingof, Shlomo Gelaki, Steven Shnider, 2007 The papers in this volume are based on the talks given at the conference on quantum groups dedicated to the memory of Joseph Donin which was held at the Technion Institute Haifa Israel in July 2004 A survey of Donin s distinguished mathematical career is included Several articles which were directly influenced by the research of Donin and his colleagues deal with invariant quantization dynamical R matrices Poisson homogeneous spaces and reflection equation algebras The topics of other articles include Hecke symmetries orbifolds set theoretic solutions to the pentagon equations representations of quantum current algebras unipotent crystals the Springer resolution the Fourier transform on Hopf algebras and as a change of pace the combinatorics of smoothly knotted surfaces The articles all contain important new contributions to their respective areas and will be of great interest to graduate students and research mathematicians interested in Hopf algebras quantum groups and applications Information for our distributors This book is copublished with Bar Ilan University Ramat Gan Israel

Lectures on Algebraic Quantum Groups Ken Brown, Ken R. Goodearl, 2012-12-06 In September 2000 at the Centre de

Recerca Matemàtica in Barcelona we presented a 30 hour Advanced Course on Algebraic Quantum Groups. After the course we expanded and smoothed out the material presented in the lectures and integrated it with the background material that we had prepared for the participants. This volume is the result. As our title implies, our aim in the course and in this text is to treat selected algebraic aspects of the subject of quantum groups. Several of the words in the previous sentence call for some elaboration. First we mean to convey several points by the term algebraic: that we are concerned with algebraic objects, the quantized analogues of classical algebraic objects, in contrast for example to quantized versions of continuous function algebras on compact groups; that we are interested in algebraic aspects of the structure of these objects and their representations, in contrast for example to applications to other areas of mathematics; and that our tools will be drawn primarily from noncommutative algebra, representation theory and algebraic geometry. Second, the term quantum groups itself. This label is attached to a large and rapidly diversifying field of mathematics and mathematical physics, originally launched by developments around 1980 in theoretical physics and statistical mechanics. It is a field driven much more by examples than by axioms and so resists attempts at concise description, but see Chapter 1.1 and the references therein.

Lectures on Quantum Groups Jens Carsten Jantzen, Starting with the quantum analog of \mathfrak{sl}_2 , the author carefully leads the reader through all the details necessary for full understanding of the subject, particularly emphasizing similarities and differences with the classical theory. The final chapters of the book describe the Kashiwara-Lusztig theory of so-called crystal or canonical bases in representations of complex semisimple Lie algebras. *Lie Theory and Its Applications in Physics* Vladimir Dobrev, 2020-10-15. This volume presents modern trends in the area of symmetries and their applications based on contributions to the workshop Lie Theory and Its Applications in Physics held near Varna, Bulgaria, in June 2019. Traditionally, Lie theory is a tool to build mathematical models for physical systems. Recently, the trend is 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 meant in their widest sense, i.e. 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, special functions and others. Furthermore, the necessary tools from functional analysis are included. This is a large interdisciplinary and interrelated field. The topics covered in this volume from the workshop represent the most modern trends in the field: Representation Theory, Symmetries in String Theories, Symmetries in Gravity Theories, Supergravity, Conformal Field Theory, Integrable Systems, Polylogarithms and Supersymmetry. They also include Supersymmetric Calogero-type models, Quantum Groups, Deformations, Quantum Computing and Deep Learning, Entanglement, Applications to Quantum Theory and Exceptional Quantum Algebra for the standard model of particle physics. This book is suitable for a broad audience of mathematicians, mathematical physicists and theoretical physicists, including

researchers and graduate students interested in Lie Theory **A Quantum Groups Primer** Shahn Majid, 2002-04-04 This book provides a self contained introduction to quantum groups as algebraic objects Based on the author s lecture notes for the Part III pure mathematics course at Cambridge University it is suitable for use as a textbook for graduate courses in quantum groups or as supplement to modern courses in advanced algebra The book assumes a background knowledge of basic algebra and linear algebra Some familiarity with semisimple Lie algebras would also be helpful The book is aimed as a primer for mathematicians but will also be useful for mathematical physicists Geometric Analysis and Lie Theory in Mathematics and Physics Alan L. Carey, Michael K. Murray, 1998 Graduate lectures on the interface between mathematics and physics *An Invitation to Quantum Groups and Duality* Thomas Timmermann, 2008 This book provides an introduction to the theory of quantum groups with emphasis on their duality and on the setting of operator algebras Part I of the text presents the basic theory of Hopf algebras Van Daele s duality theory of algebraic quantum groups and Woronowicz s compact quantum groups staying in a purely algebraic setting Part II focuses on quantum groups in the setting of operator algebras Woronowicz s compact quantum groups are treated in the setting of C algebras and the fundamental multiplicative unitaries of Baaj and Skandalis are studied in detail An outline of Kustermans and Vaes comprehensive theory of locally compact quantum groups completes this part Part III leads to selected topics such as coactions Baaj Skandalis duality and approaches to quantum groupoids in the setting of operator algebras The book is addressed to graduate students and non experts from other fields Only basic knowledge of multi linear algebra is required for the first part while the second and third part assume some familiarity with Hilbert spaces C algebras and von Neumann algebras *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 **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 Kohn 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 *Introduction to*

Quantum Groups Teo Banica, 2023-01-01 This book introduces the reader to quantum groups focusing on the simplest ones namely the closed subgroups of the free unitary group Although such quantum groups are quite easy to understand mathematically interesting examples abound including all classical Lie groups their free versions half liberations other intermediate liberations anticommutation twists the duals of finitely generated discrete groups quantum permutation groups quantum reflection groups quantum symmetry groups of finite graphs and more The book is written in textbook style with its contents roughly covering a one year graduate course Besides exercises the author has included many remarks comments and pieces of advice with the lone reader in mind The prerequisites are basic algebra analysis and probability and a certain familiarity with complex analysis and measure theory Organized in four parts the book begins with the foundations of the theory due to Woronowicz comprising axioms Haar measure Peter Weyl theory Tannakian duality and basic Brauer theorems The core of the book its second and third parts focus on the main examples first in the continuous case and then in the discrete case The fourth and last part is an introduction to selected research topics such as toral subgroups homogeneous spaces and matrix models Introduction to Quantum Groups offers a compelling introduction to quantum groups from the simplest examples to research level topics

Theory Of Groups And Symmetries: Finite Groups, Lie Groups, And Lie Algebras Alexey P Isaev, Valery A Rubakov, 2018-03-22 The book presents the main approaches in study of algebraic structures of symmetries in models of theoretical and mathematical physics namely groups and Lie algebras and their deformations It covers the commonly encountered quantum groups including Yangians The second main goal of the book is to present a differential geometry of coset spaces that is actively used in investigations of models of quantum field theory gravity and statistical physics The third goal is to explain the main ideas about the theory of conformal symmetries which is the basis of the AdS CFT correspondence The theory of groups and symmetries is an important part of theoretical physics In elementary particle physics cosmology and related fields the key role is played by Lie groups and algebras corresponding to continuous symmetries For example relativistic physics is based on the Lorentz and Poincare groups and the modern theory of elementary particles the Standard Model is based on gauge local symmetry with the gauge group $SU(3) \times SU(2) \times U(1)$ This book presents constructions and results of a general nature along with numerous concrete examples that have direct applications in modern theoretical and mathematical physics

Quantum Theory and Symmetries with Lie Theory and Its Applications in Physics Volume 1 Vladimir Dobrev, 2018-11-28 This book is the first volume of proceedings from the joint conference X International Symposium Quantum Theory and Symmetries QTS X and XII International Workshop Lie Theory and Its Applications in Physics LT XII held on 19-25 June 2017 in Varna Bulgaria The QTS series was founded on the core principle that symmetries underlie all descriptions of quantum systems It has since evolved into a symposium at the forefront of theoretical and mathematical physics The LT series covers the whole field of Lie theory in its widest sense together with its applications in many areas of physics As an interface between mathematics and physics the workshop

serves as a meeting place for mathematicians and theoretical and mathematical physicists In dividing the material between the two volumes the Editor has sought to select papers that are more oriented toward mathematics for the first volume and those focusing more on physics for the second However this division is relative since many papers are equally suitable for either volume The topics addressed in this volume represent the latest trends in the fields covered by the joint conferences representation theory integrability entanglement quantum groups number theory conformal geometry quantum affine superalgebras noncommutative geometry Further they present various mathematical results on minuscule modules symmetry breaking operators Kashiwara crystals meta conformal invariance the superintegrable Zernike system

Hopf Algebras, Quantum Groups and Yang-Baxter Equations Florin Felix Nichita, 2019-01-31 This book is a printed edition of the Special Issue Hopf Algebras Quantum Groups and Yang Baxter Equations that was published in Axioms

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 \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

Uncover the mysteries within is enigmatic creation, Embark on a Mystery with **Quantum Groups And Lie Theory** . This downloadable ebook, shrouded in suspense, is available in a PDF format (PDF Size: *). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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