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Quantum Groups and Lie Theory

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Quantum Groups And Lie Theory

**Kailash C. Misra, Daniel Ken
Nakano, Brian Parshall**



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

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 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

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 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

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

Lie Theory and Geometry Jean-Luc Brylinski, Raneé Brylinski, Victor Guillemin, Victor Kac, 2012-12-06 This volume dedicated to Bertram Kostant on the occasion of his 65th birthday is a collection of 22 invited papers by leading mathematicians working in Lie theory geometry algebra and mathematical physics Kostant's fundamental work in all these areas has provided deep new insights and connections and has created new fields of research The papers gathered here present original research articles as well as expository papers broadly reflecting the range of Kostant's work

Lectures on Quantum Groups Jens Carsten Jantzen, Starting with the quantum analog of 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 algebra

Recent Developments in Lie Algebras, Groups and Representation Theory Kailash C. Misra, Daniel Ken Nakano, Brian Parshall, 2012 This book contains the proceedings of the 2009 2011 Southeastern Lie Theory Workshop Series held October 9 11 2009 at North Carolina State University May 22 24 2010 at the University of Georgia and June 1 4 2011 at the University of Virginia Some of the articles written by experts in the field survey recent developments while others include new results in Lie algebras quantum groups finite groups and algebraic groups

Lie Theory And Its Applications In Physics II - Proceedings Of The II International Workshop Heinz-dietrich Doebner, Joachim Hilgert, Vladimir K Dobrev, 1998-12-07 This book consists of about 20 lectures on theoretical and observational aspects of astrophysical black holes by experts in the field

The basic principles and astrophysical applications of the black hole magnetosphere and the Blandford Znajek process are reviewed in detail as well as accretion by black holes black hole X Ray binaries black holes with cosmic strings and so on Recent advances in X Ray observations of galactic black holes and new understanding of supermassive black holes in AGNs and normal galaxies are also discussed

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

Lectures on Quantum Groups Pavel I. Etingof, Olivier Schiffmann, 2002 Based on lectures given at Harvard University in 1997 this book is an introduction to the theory of quantum groups and its development between 1982 and 1997 Topics covered include relevant quasiclassical objects bialgebras Hopf algebras and lie associators

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

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 **Quantum Field Theory III: Gauge Theory** Eberhard Zeidler, 2011-08-17 In this third volume of his modern introduction to quantum field theory Eberhard Zeidler examines the mathematical and physical aspects of gauge theory as a principle tool for describing the four fundamental forces which act in the universe gravitative electromagnetic weak interaction and strong interaction Volume III concentrates on the classical aspects of gauge theory describing the four fundamental forces by the curvature of appropriate fiber bundles This must be supplemented by the crucial but elusive quantization procedure The book is arranged in four sections devoted to realizing the universal principle force equals curvature Part I The Euclidean Manifold as a Paradigm Part II Ariadne's Thread in Gauge Theory Part III Einstein's Theory of Special Relativity Part IV Ariadne's Thread in Cohomology For students of mathematics the book is designed to demonstrate that detailed knowledge of the physical background helps to reveal interesting interrelationships among diverse mathematical topics Physics students will be exposed to a fairly advanced mathematics beyond the level covered in the typical physics curriculum Quantum Field Theory builds a bridge between mathematicians and physicists based on challenging questions about the fundamental forces in the universe macrocosmos and in the world of elementary particles microcosmos

Recent Advances in Representation Theory, Quantum Groups, Algebraic Geometry, and Related Topics Pramod M. Achar, Dijana Jakelić, Kailash C. Misra, Milen Yakimov, 2014-08-27 This volume contains the proceedings of two AMS Special Sessions Geometric and Algebraic Aspects of Representation Theory and Quantum Groups and Noncommutative Algebraic Geometry held October 13-14 2012 at Tulane University New Orleans Louisiana Included in this volume are original research and some survey articles on various aspects of representations of algebras including Kac-Moody algebras Lie superalgebras quantum groups toroidal algebras Leibniz algebras and their connections with other areas of mathematics and mathematical physics *Representations of Finite Dimensional Algebras and Related Topics in Lie Theory and Geometry* Vlastimil Dlab, Claus Michael Ringel, 2004 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

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