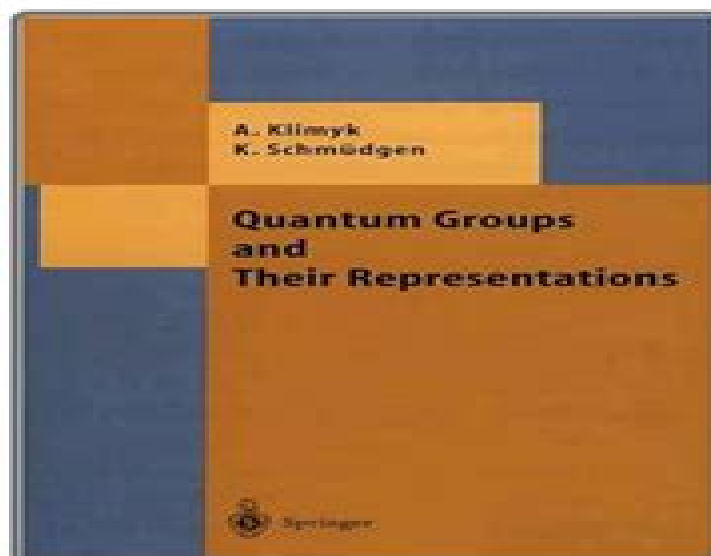


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Quantum Groups And Their Representations Theoretical And Mathematical Physics

Anatoli Klimyk, Konrad Schmüdgen



Quantum Groups And Their Representations Theoretical And Mathematical Physics:

Quantum Groups and Their Representations Anatoli Klimyk, Konrad Schmüdgen, 2012-12-06 This book starts 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.

Representation Theory, Mathematical Physics, and Integrable Systems Anton Alekseev, Edward Frenkel, Marc Rosso, Ben Webster, Milen Yakimov, 2022-02-05 Over the course of his distinguished career, Nicolai Reshetikhin has made a number of groundbreaking contributions in several fields including representation theory, integrable systems, and topology. The chapters in this volume, compiled on the occasion of his 60th birthday, are written by distinguished mathematicians and physicists and pay tribute to his many significant and lasting achievements. Covering the latest developments at the interface of noncommutative algebra, differential and algebraic geometry, and perspectives arising from physics, this volume explores topics such as the development of new and powerful knot invariants, new perspectives on enumerative geometry and string theory, and the introduction of cluster algebra and categorification techniques into a broad range of areas. Chapters will also cover novel applications of representation theory to random matrix theory, exactly solvable models in statistical mechanics, and integrable hierarchies. The recent progress in the mathematical and physical aspects of deformation quantization and tensor categories is also addressed. Representation Theory, Mathematical Physics, and Integrable Systems will be of interest to a wide audience of mathematicians interested in these areas and the connections between them, ranging from graduate students to junior, mid-career, and senior researchers.

Elliptic Quantum Groups Hitoshi Konno, 2020-09-14 This is the first book on elliptic quantum groups, i.e. quantum groups associated to elliptic solutions of the Yang-Baxter equation. Based on research by the author and his collaborators, the book presents a comprehensive survey on the subject, including a brief history of formulations and applications, a detailed formulation of the elliptic quantum group in the Drinfeld realization, explicit construction of both finite and infinite dimensional representations, and a construction of the vertex operators as intertwining operators of these representations. The vertex operators are important objects in representation theory of quantum groups. In this book, they are used to derive the elliptic q -KZ equations and their elliptic hypergeometric integral solutions. In particular, the so-called elliptic weight functions appear in such solutions. The author's recent study showed that these elliptic weight functions are identified with Okounkov's elliptic stable envelopes for certain equivariant elliptic cohomology and play an important role to construct

geometric representations of elliptic quantum groups Okounkov's geometric approach to quantum integrable systems is a rapidly growing topic in mathematical physics related to the Bethe ansatz the Alday Gaiotto Tachikawa correspondence between 4D SUSY gauge theories and the CFT's and the Nekrasov Shatashvili correspondences between quantum integrable systems and quantum cohomology To invite the reader to such topics is one of the aims of this book 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 **Introduction to Quantum Groups and Crystal Bases** Jin Hong, Seok-Jin Kang, 2002 The purpose of this book is to provide an elementary introduction to the theory of quantum groups and crystal bases focusing on the combinatorial aspects of the theory *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 *Fifty Years of Mathematical Physics* Molin Ge, Antti J Niemi, 2016-02-16 This unique volume summarizes with a historical perspective several of the major scientific achievements of Ludwig Faddeev with a foreword by Nobel Laureate C N Yang The volume that spans over fifty years of Faddeev's career begins where he started his own scientific research in the subject of scattering theory and the three body problem It then continues to describe Faddeev's contributions to automorphic functions followed by an extensive account of his many fundamental contributions to quantum field theory including his original article on ghosts with Popov Faddeev's contributions to soliton theory and integrable models are then described followed by a survey of his work on quantum groups The final scientific section is devoted to Faddeev's contemporary research including articles on

his long term interest in constructing knotted solitons and understanding confinement The volume concludes with his personal view on science and mathematical physics in particular *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 *Basics of Representation Theory* Udayan Bhattacharya,2025-02-20 Delve into the captivating world of Basics of Representation Theory a comprehensive guide designed for students researchers and enthusiasts eager to explore the intricate symmetries and structures that underpin modern mathematics Our book offers a detailed introduction to foundational concepts providing a solid understanding of group actions linear representations and character theory From there it explores the algebraic structures of irreducible representations breaking down the decomposition into irreducible components and examining the properties of characters Readers will journey through diverse topics including the representation theory of symmetric groups Lie groups and algebraic groups as well as advanced topics such as the representation theory of finite groups the Langlands program and applications in quantum mechanics and number theory With a wealth of examples illustrations and exercises Basics of Representation Theory ensures a hands on approach to learning encouraging practical exploration and problem solving The book also includes numerous references and further reading suggestions for those who wish to delve deeper into specific topics Written in a clear and accessible style this book caters to all levels from undergraduate students encountering representation theory for the first time to experienced researchers seeking fresh insights With its comprehensive coverage and diverse applications Basics of Representation Theory is an invaluable resource for anyone interested in the beauty and depth of this field *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

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