A Quantum Groups Primer

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Quantum Groups Primer:

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 *Springer-Handbuch der Mathematik IV* Eberhard Zeidler,2012-12-14 Als mehrb ndiges Nachschlagewerk ist das Springer Handbuch der Mathematik in erster Linie f r wissenschaftliche Bibliotheken akademische Institutionen und Firmen sowie interessierte Individualkunden in Forschung und Lehre gedacht Es erg nzt das einb ndige themenumfassende Springer Taschenbuch der Mathematik ehemaliger Titel Teubner Taschenbuch der Mathematik das sich in seiner begrenzten Stoffauswahl besonders an Studierende richtet Teil IV des Springer Handbuchs enth lt die folgenden Zusatzkapitel zum Springer Taschenbuch H here Analysis Lineare sowie Nichtlineare Funktionalanalysis und ihre Anwendungen Dynamische Systeme Nichtlineare partielle Differentialgleichungen Mannigfaltigkeiten Riemannsche Geometrie und allgemeine Relativit tstheorie Liegruppen Liealgebren und Elementarteilchen Topologie Kr mmung und Analysis *The Princeton Companion to Mathematics* Timothy Gowers,June Barrow-Green,Imre Leader,2010-07-18 The ultimate mathematics reference book This is a one of a kind reference for anyone with a serious interest in mathematics Edited by Timothy Gowers a recipient of the Fields Medal it presents nearly two hundred entries written especially for this book by some of the world s leading mathematicians that introduce basic mathematical tools and vocabulary trace the development of modern mathematics explain essential terms and concepts examine core ideas in major areas of mathematics describe the achievements of scores of famous mathematicians explore the impact of mathematics on other disciplines such as biology finance and music and much much more Unparalleled in its depth of coverage The Princeton Companion to Mathematics surveys the most active and exciting branches of pure mathematics Accessible in style this is an indispensable resource for undergraduate and graduate students in mathematics as well as for researchers and scholars seeking to understand areas outside their specialties Features nearly 200 entries organized thematically and written by an international team of distinguished contributors Presents major ideas and branches of pure mathematics in a clear accessible style Defines and explains important mathematical concepts methods theorems and open problems Introduces the language of mathematics and the goals of mathematical research Covers number theory algebra analysis geometry logic probability and more Traces the history and development of modern mathematics Profiles more than ninety five mathematicians who influenced those working today Explores the influence of mathematics on other disciplines Includes bibliographies cross references and a comprehensive index Contributors include Graham Allan Noga Alon George Andrews Tom Archibald Sir

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ground field From it he deduces a more explicit description of all prime ideals of than the previously known ones and an explicit parametrization of *The Mysteries of the Real Prime* M. J. Shai Haran,2001 Highly topical and original monograph introducing the author s work on the Riemann zeta function and its adelic interpretation of interest to a wide range of mathematicians and physicists 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 **Noncommutative Geometry and Quantum Groups** Piotr M. Hajac,Wiesław Pusz,2003 *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 **Mathematical Reviews** ,2004 **Lectures on Algebraic Quantum Groups** John C Brown,Ken R. Goodearl,2002-04-01 This book consists of an expanded set of lectures on algebraic aspects of quantum groups It particularly concentrates on quantized coordinate rings of algebraic groups and spaces and on quantized enveloping algebras of semisimple Lie algebras Large parts of the material are developed in full textbook style featuring many examples and numerous exercises other portions are discussed with sketches of proofs while still other material is quoted without proof *Encyclopedia of Mathematical Physics* Jean-Pierre Francoise,Gregory L. Naber,Tsou Sheung Tsun,2006-06-20 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher s own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics

by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou Sheung Tsun University of Oxford UK Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit www info sciencedirect com First comprehensive interdisciplinary coverage Mathematical Physics explained to stimulate new developments and foster new applications of its methods to other fields Written by an international group of experts Contains several undergraduate level introductory articles to facilitate acquisition of new expertis Thematic index and extensive cross referencing to provide easy access and quick search functionality Also available online with active linking **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 **Quantum Groups and Their Primitive Ideals** Anthony Joseph,2012-12-06 by a more general quadratic algebra possibly obtained by deformation and then to derive Rq G by requiring it to possess the latter as a comodule A third principle is to focus attention on the tensor structure of the cat egory of modules This means of course just defining an algebra structure on Rq G but this is to be done in a very specific manner Concretely the category is required to be braided and this forces 9 4 2 the existence of an R matrix satisfying in particular the quantum Yang Baxter equation and from which the algebra structure of Rq G can be written down 9 4 5 Finally there was a search for a perfectly self dual model for Rq G which would then be isomorphic to Uq g Apparently this failed but V G Drinfeld found that it could be essentially made to work for the Borel part of Uq g denoted U b and further found a general construction the Drinfeld double q mirroring a Lie bialgebra This gives Uq g up to passage to a quotient One of the most remarkable aspects of the above superficially different ap proaches is their extraordinary intercoherence In particular they essentially all lead for G semisimple to the same and hence canonical objects Rq G and Uq g though this epithet may as yet be premature

Foundations of Quantum Group Theory Shahn Majid,2000 A graduate level text which systematically lays out the

foundations of Quantum Groups **Introduction to Quantum Groups** Masud Chaichian,Andrei Pavlovich Demichev,1996 In the past decade there has been an extemely 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 **Lectures on Quantum Groups** Jens Carsten Jantzen,1996 The material is very well motivated Of the various monographs available on quantum groups this one seems the most suitable for most mathematicians new to the subject will also be appreciated by a lot of those with considerably more experience Bulletin of the London Mathematical Society Since its origin the theory of quantum groups has become one of the most fascinating topics of modern mathematics with numerous applications to several sometimes rather disparate areas including low dimensional topology and mathematical physics This book is one of the first expositions that is specifically directed to students who have no previous knowledge of the subject The only prerequisite in addition to standard linear algebra is some acquaintance with the classical theory of complex semisimple Lie algebras 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 The choice of the topics and the style of exposition make Jantzen s book an excellent textbook for a one semester course on quantum groups Surveys in Combinatorics ,2007

Reviewing **Quantum Groups Primer**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Quantum Groups Primer**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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