

SYMMETRIES IN SCIENCE VI

**From the Rotation Group
to Quantum Algebras**



**Edited by
Bruno Gruber**



Quantum Group Symetry And Qtensor Algebras

Jong-Ping Hsu, Leonardo Hsu



Quantum Group Symmetry And Q-tensor Algebras:

Quantum Group Symmetry and Q-tensor Algebras L. C. Biedenharn, M. A. Lohe, 1995 Quantum groups are a generalization of the classical Lie groups and Lie algebras and provide a natural extension of the concept of symmetry fundamental to physics This monograph is a survey of the major developments in quantum groups using an original approach based on the fundamental concept of a tensor operator Using this concept properties of both the algebra and co algebra are developed from a single uniform point of view which is especially helpful for understanding the noncommuting coordinates of the quantum plane which we interpret as elementary tensor operators Representations of the q deformed angular momentum group are discussed including the case where q is a root of unity and general results are obtained for all unitary quantum groups using the method of algebraic induction Tensor operators are defined and discussed with examples and a systematic treatment of the important $3j$ series of operators is developed in detail This book is a good reference for graduate students in physics and mathematics

Quantum Group Symmetry And Q-tensor Algebras Lawrence C Biedenharn, Max A Lohe, 1995-08-31 Quantum groups are a generalization of the classical Lie groups and Lie algebras and provide a natural extension of the concept of symmetry fundamental to physics This monograph is a survey of the major developments in quantum groups using an original approach based on the fundamental concept of a tensor operator Using this concept properties of both the algebra and co algebra are developed from a single uniform point of view which is especially helpful for understanding the noncommuting coordinates of the quantum plane which we interpret as elementary tensor operators Representations of the q deformed angular momentum group are discussed including the case where q is a root of unity and general results are obtained for all unitary quantum groups using the method of algebraic induction Tensor operators are defined and discussed with examples and a systematic treatment of the important $3j$ series of operators is developed in detail This book is a good reference for graduate students in physics and mathematics

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 $GL_q(n, q)$ Maxwell Equations Hierarchies

Quantum Bounded Symmetric Domains Leonid L'vovych Vaksman, 2010 This book provides exposition of the basic theory of quantum bounded symmetric domains The area became

active in the late 1990s at a junction of noncommutative complex analysis and extensively developing theory of quantum groups. It is well known that the classical bounded symmetric domains involve a large number of nice constructions and results of the theory of C^* -algebras, theory of functions and functional analysis, representation theory of real reductive Lie groups, harmonic analysis and special functions. In a surprising advance of the theory of quantum bounded symmetric domains it turned out that many classical problems admit elegant quantum analogs. Some of those are expounded in the book. Anyone with an interest in the subject will welcome this unique treatment of quantum groups.

Table of Contents Quantum disc Basic quantum theory of bounded symmetric domains Conclusion Bibliography Index About the book

The book is written by a leading expert in a very clear, careful and stimulating way. I strongly recommend it to graduate students and research mathematicians interested in noncommutative geometry, quantum groups, C^* -algebras or operator theory.

Vladimir Drinfeld
University of Chicago
MMONO 238

New Trends in Mathematical Physics Vidas Sidoravicius, 2009-08-31

This book collects selected papers written by invited and plenary speakers of the 15th International Congress on Mathematical Physics (ICMP) in the aftermath of the conference. In extensive review articles and expository texts as well as advanced research articles, the world's leading experts present the state of the art in modern mathematical physics. New mathematical concepts and ideas are introduced by prominent mathematical physicists and mathematicians covering, among others, the fields of Dynamical Systems, Operator Algebras, Partial Differential Equations, Probability Theory, Random Matrices, Condensed Matter Physics, Statistical Mechanics, General Relativity, Quantum Mechanics, Quantum Field Theory, Quantum Information and String Theory. All together, the contributions in this book give a panoramic view of the latest developments in mathematical physics. They will help readers with a general interest in mathematical physics to get an update on the most recent developments in their field and give a broad overview on actual and future research directions in this fascinating and rapidly expanding area.

GROUP 24 J.P. Gazeau, R. Kerner, J.P. Antoine, S. Metens, J.Y. Thibon, 2003-11-30

One of the most enduring elements in theoretical physics has been group theory. **GROUP 24: Physical and Mathematical Aspects of Symmetries** provides an important selection of informative articles describing recent advances in the field. The applications of group theory presented in this book deal not only with the traditional fields of physics but also include such disciplines as chemistry and biology. Awarded the Wigner Medal and the Weyl Prize respectively, H.J. Lipkin and E. Frenkel begin the volume with their contributions. Plenary session contributions are represented by 18 longer articles followed by nearly 200 shorter articles. The book also presents coherent states, wavelets and applications, and quantum group theory and integrable systems in two separate sections. As a record of an international meeting devoted to the physical and mathematical aspects of group theory, **GROUP 24: Physical and Mathematical Aspects of Symmetries** constitutes an essential reference for all researchers interested in various current developments related to the important concept of symmetry.

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

Challenging Routes In Quantum Cosmology

Shahram Jalalzadeh, Paulo Vargas Moniz, 2022-07-28 Quantum cosmology has gradually emerged as the focus of devoted research mostly within the second half of last century As we entered the 21st century the subject is still very much alive The outcome of results and templates for investigation have been enlarged some very recent and fascinating Hence this book where the authors bequeath some of their views as they believe this current century is the one where quantum cosmology will be fully accomplished Though some aspects are not discussed namely supersymmetry or loop structures there are perhaps a set of challenges that in the authors opinion remain some since the dawn of quantum mechanics and applications to cosmology Others could have been selected at the readers discretion and opinion The authors put herewith a chart and directions to explore some of which they have worked on or aimed to work more in the twilight of their current efforts Their confidence is that someone will follow in their trails venturing in discovering the proper answer by being able to formulate the right questions beforehand The authors shared foresight is that such discoveries from those formulations will be attained upon endorsing the routes within the challenges herewith indicated

Quantum Triangulations

Mauro Carfora, Annalisa Marzuoli, 2012-01-14 Research on polyhedral manifolds often points to unexpected connections between very distinct aspects of Mathematics and Physics In particular triangulated manifolds play quite a distinguished role in such settings as Riemann moduli space theory strings and quantum gravity topological quantum field theory condensed matter physics and critical phenomena Not only do they provide a natural discrete analogue to the smooth manifolds on which physical theories are typically formulated but their appearance is rather often a consequence of an underlying structure which naturally calls into play non trivial aspects of representation theory of complex analysis and topology in a way which makes manifest the basic geometric structures of the physical interactions involved Yet in most of the existing literature triangulated manifolds are still merely viewed as a convenient discretization of a given physical theory to make it more amenable for numerical treatment The motivation for these lectures notes is thus to provide an approachable introduction to this topic emphasizing the conceptual aspects and probing through a set of cases studies the connection between triangulated manifolds and quantum physics to the deepest This volume addresses applied mathematicians and theoretical physicists working in the field of quantum geometry and its applications

The Legacy of Alladi Ramakrishnan in the Mathematical Sciences

Krishnaswami Alladi, John R. Klauder, Calyampudi R. Rao, 2010-08-26 Alladi Ramakrishnan 1923 2008 was an eminent scientist who had a wide range of research interests in theoretical and mathematical physics Professor Ramakrishnan made significant contributions to probability and statistics elementary particle physics cosmic rays and astrophysics matrix theory and the special theory of relativity Ramakrishnan believed strongly that in addition to doing fundamental research one must contribute to the advancement of the profession Inspired by his visit to the Institute for Advanced Study in Princeton in 1957 1958 he returned to Madras and began the Theoretical Physics Seminar at his family home Ekamra Nivas These seminars were ultimately responsible for the creation of MATSCIENCE The Institute of Mathematical Sciences in 1962 This institute of which he was the Director for its first 21 years has grown steadily in size and stature and is his monumental contribution to the profession In a distinguished scientific life that has spanned more than five decades Professor Ramakrishnan has come into close contact with and was influenced by several eminent mathematicians and physicists and has moulded the careers of his several students and young researchers This volume which is a tribute to his great legacy not only deals with his significant contributions to research and the profession but also contains a new collection of research and survey papers by leading physicists and mathematicians that cover a broad range of areas in the mathematical sciences Group Theoretical

Methods in Physics G.S Pogosyan, L.E Vincent, K.B Wolf, 2005-05-01 This book discusses group theoretical methods and their applications in physics chemistry and biology It covers traditional subjects including Lie group and representation theory special functions foundations of quantum mechanics and elementary particle nuclear atomic and molecular physics More recent areas discussed are supersymmetry superstrings and quantum gravity integrability nonlinear systems and quantum chaos semigroups time asymmetry and resonances condensed matter and statistical physics Topics such as linear and nonlinear optics quantum computing discrete systems and signal analysis have only in the last few years become part of the group theorists' turf **Essays on the Future** Siegfried Hecker, Gian-Carlo Rota, 2013-12-01 The present work represents a

unique undertaking in scientific publishing to honor Nick Metropolis who passed away in October 1999 Nick was the last survivor of the Manhattan Project that began during World War II in Los Alamos and later became the Los Alamos National Laboratory In this volume some of the leading scientists and humanists of our time have contributed essays related to their respective disciplines exploring various aspects of future developments in science technology and society Speculations on the future developments of science and society philosophy national security nuclear power pure and applied mathematics physics and biology particle physics computing information science among many others are included Contributors include H Agnew R Ashenhurst K Baclawski G Baker N Balazs J A Freed R Hamming M Hawrylycz O Judd D Kleitman M Krieger N Krikorian P Lax J D Louck T Puck M Raju R Richtmyer J Schwartz R Sokolowski E Teller M Waterman The Nucleus F.D. Smit, R.

Lindsay, S.V. Förtsch, 2012-12-06 The articles in this book cover a broad range of topics in the field of nuclear physics including many articles on the subject of high spin physics With an emphasis on the discussion and analysis of future

developments within a number of significant areas the book's attempt to address the status of research at the beginning of the next century is to be welcomed by researchers and students alike

Optimization Algorithms Mykhaylo Andriychuk, Ali Sadollah, 2024-07-10 Optimization Algorithms Classics and Last Advances is devoted to developing algorithm theory and exploring the use of different optimization algorithms for solving various problems in pure science applied physics and information technology The book consists of two sections The first focuses on developing abstract algorithms with subsequent applications to real world optimization problems It discusses optimization problems based on partial differential equations canonical polyadic decomposition variational approach and ant colony optimization which are discussed here The second section presents problems related to optimization in information technologies Chapters in this section address the utilization of optimization algorithms to solve problems of reducing computation time and computer memory reducing kernel mechanism processing time in multimedia authoring tools arranging access optimization for special applications and minimizing resources for solving vehicle routing problems

Differential Geometry and Physics Mo-Lin Ge, Weiping Zhang, 2006 This volume provides a comprehensive review of interactions between differential geometry and theoretical physics contributed by many leading scholars in these fields The contributions promise to play an important role in promoting the developments in these exciting areas Besides the plenary talks the coverage includes models and related topics in statistical physics quantum fields strings and M theory Yang Mills fields knot theory and related topics K theory including index theory and non commutative geometry mirror symmetry conformal and topological quantum field theory development of integrable systems and random matrix theory

Differential Geometry And Physics - Proceedings Of The 23th International Conference Of Differential Geometric Methods In Theoretical Physics Weiping Zhang, Mo-lin Ge, 2006-12-11 This volume provides a comprehensive review of interactions between differential geometry and theoretical physics contributed by many leading scholars in these fields The contributions promise to play an important role in promoting the developments in these exciting areas Besides the plenary talks the coverage includes models and related topics in statistical physics quantum fields strings and M theory Yang Mills fields knot theory and related topics K theory including index theory and non commutative geometry mirror symmetry conformal and topological quantum field theory development of integrable systems and random matrix theory

JingShin Theoretical Physics Symposium in Honor of Professor Ta-You Wu Jong-Ping Hsu, Leonardo Hsu, 1998 Prof T Y Wu is not only an eminent physicist with an encyclopedic knowledge but also a motivational teacher and an influential policy maker in science and technology The young Wu was inspired by Prof Y T Yao whose course on modern physics sparked an interest that burned during a long and productive career Among Wu's achievements are 14 books and more than 120 papers covering subjects from atomic and molecular physics to plasmas and gases to atmospheric physics to relativity theory Even at the age of 90 he remains active publishing papers and lecturing on physics Prof Wu feels grateful that he had the opportunity to educate a group of extremely talented

students and in particular to discover T D Lee s remarkable talent Although creative talent is no doubt a product of nature it must also be nurtured Prof Wu has played a crucial role for an entire generation of physicists in China and has won great respect from former students such as C N Yang T D Lee K Huang and countless others Prof Wu s love of physics and his dedication in teaching and research will always be remembered

Computational Science and Its Applications - ICCSA 2017 Osvaldo Gervasi,Beniamino Murgante, Sanjay Misra, Giuseppe Borruso, Carmelo M. Torre, Ana Maria A.C. Rocha, David Taniar, Bernady O. Apduhan, Elena Stankova, Alfredo Cuzzocrea, 2017-07-13 The six volume set LNCS 10404 10409 constitutes the refereed proceedings of the 17th International Conference on Computational Science and Its Applications ICCSA 2017 held in Trieste Italy in July 2017 The 313 full papers and 12 short papers included in the 6 volume proceedings set were carefully reviewed and selected from 1052 submissions Apart from the general tracks ICCSA 2017 included 43 international workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality Furthermore this year ICCSA 2017 hosted the XIV International Workshop On Quantum Reactive Scattering The program also featured 3 keynote speeches and 4 tutorials

Symmetries in Science X Bruno Gruber, Michael Ramek, 2013-06-29 Proceedings an International Symposium held in Bregenz Austria July 13 18 1997

Symmetries in gravity and field theory Víctor Aldaya, José Ma Cerveró, 2004-01-01

The book delves into Quantum Group Symetry And Qtensor Algebras. Quantum Group Symetry And Qtensor Algebras is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Quantum Group Symetry And Qtensor Algebras, encompassing both the fundamentals and more intricate discussions.

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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Quantum Group Symetry And Qtensor Algebras.

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