

FOUNDATIONS OF QUANTUM GROUP THEORY

SHAHN MAJID



Foundations Of Quantum Group Theory

**Delaram Kahrobaei, Ramçın
Flores, Marialaura Noce, Maggie E.
Habeeb, Christopher Battarbee**

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Foundations of Quantum Group Theory Shahn Majid, 2000 A graduate level text which systematically lays out the foundations of Quantum Groups **Foundations of Quantum Group Theory** Shahn Majid, 2000-04-13 This is a graduate level text that systematically develops the foundations of the subject Quantum groups i e Hopf algebras are treated as mathematical objects in their own right basic properties and theorems are proven in detail from this standpoint including the results underlying key applications After formal definitions and basic theory the book goes on to cover such topics as quantum enveloping algebras matrix quantum groups combinatorics cross products of various kinds the quantum double the semiclassical theory of Poisson Lie groups the representation theory braided groups and applications to q deformed physics The explicit proofs and a great many worked examples and exercises will allow readers to quickly pick up the techniques needed for working in this exciting new field Foundations of Quantum Group Theory Shahn Majid, 1998 **Group Theory and Hopf Algebras** A. P. Balachandran, S. G. Jo, Giuseppe Marmo, 2010 This book is addressed to graduate students and research workers in theoretical physics who want a thorough introduction to group theory and Hopf algebras It is suitable for a one semester course in group theory or a two semester course which also treats advanced topics Starting from basic definitions it goes on to treat both finite and Lie groups as well as Hopf algebras Because of the diversity in the choice of topics which does not place undue emphasis on finite or Lie groups it should be useful to physicists working in many branches A unique aspect of the book is its treatment of Hopf algebras in a form accessible to physicists Hopf algebras are generalizations of groups and their concepts are acquiring importance in the treatment of conformal field theories noncommutative spacetimes topological quantum computation and other important domains of investigation But there is a scarcity of treatments of Hopf algebras at a level and in a manner that physicists are comfortable with This book addresses this need superbly There are illustrative examples from physics scattered throughout the book and in its set of problems It also has a good bibliography These features should enhance its value to readers The authors are senior physicists with considerable research and teaching experience in diverse aspects of fundamental physics The book being the outcome of their combined efforts stands testament to their knowledge and pedagogical skills , **Progress in Analysis** Heinrich G. W. Begehr, Robert Pertsch Gilbert, Man Wah Wong, 2003 The biannual ISAAC congresses provide information about recent progress in the whole area of analysis including applications and computation This book constitutes the proceedings of the third meeting **Progress In Analysis, Proceedings Of The 3rd Isaac Congress (In 2 Volumes)** Heinrich G W Begehr, Robert Pertsch Gilbert, Man-wah Wong, 2003-08-04 The biannual ISAAC congresses provide information about recent progress in the whole area of analysis including applications and computation This book constitutes the proceedings of the third meeting *The Probability Interpretation and the Statistical Transformation Theory, the Physical Interpretation, and the Empirical and Mathematical Foundations of Quantum Mechanics 1926-1932* Jagdish Mehra, Helmut

Rechenberg,2000-08-25 Quantum Theory together with the principles of special and general relativity constitute a scientific revolution that has profoundly influenced the way in which we think about the universe and the fundamental forces that govern it The Historical Development of Quantum Theory is a definitive historical study of that scientific work and the human struggles that accompanied it from the beginning Drawing upon such materials as the resources of the Archives for the History of Quantum Physics the Niels Bohr Archives and the archives and scientific correspondence of the principal quantum physicists as well as Jagdish Mehra's personal discussions over many years with most of the architects of quantum theory the authors have written a rigorous scientific history of quantum theory in a deeply human context This multivolume work presents a rich account of an intellectual triumph a unique analysis of the creative scientific process The Historical Development of Quantum Theory is science history and biography all wrapped in the story of a great human enterprise Its lessons will be an aid to those working in the sciences and humanities alike *Introduction To The Theory Of* Vasyly Ostrovskyi,2004-11-11 Provides the fundamentals of representations of finitely presented algebras by bounded operators The theory is illustrated with numerous examples of algebra The examples in particular include algebra with two self adjoint generators that satisfy a quadratic or a more general relation algebra with three or four generators algebra that arise from one and many dimensional discrete dynamical systems Wick algebra various wild algebras This book is intended for graduate students as well as researchers Lie Theory and Its Applications in Physics Vladimir Dobrev,2025-02-27 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 in Sofia Bulgaria in June 2023 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 **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

Variant Construction from Theoretical Foundation to Applications Jeffrey Zheng, 2018-12-17 This open access book presents theoretical framework and sample applications of variant construction The first part includes the components variant logic variant measurements and variant maps while the second part covers sample applications such as variation with functions variant stream ciphers quantum interference classical quantum random sequences whole DNA sequences and multiple valued pulse sequences Addressing topics ranging from logic and measuring foundation to typical applications and including various illustrated maps it is a valuable guide for theoretical researchers in discrete mathematics computing quantum and communication scientists big data engineers as well as graduate and upper undergraduate students

Clifford Algebras Rafal Ablamowicz, 2012-12-06 The invited papers in this volume provide a detailed examination of Clifford algebras and their significance to analysis geometry mathematical structures physics and applications in engineering While the papers collected in this volume require that the reader possess a solid knowledge of appropriate background material they lead to the most current research topics With its wide range of topics well established contributors and excellent references and index this book will appeal to graduate students and researchers

New Directions in Hopf Algebras Susan Montgomery, Hans-Jurgen Schneider, 2002-05-06 Hopf algebras have important connections to quantum theory Lie algebras knot and braid theory operator algebras and other areas of physics and mathematics They have been intensely studied in the past in particular the solution of a number of conjectures of Kaplansky from the 1970s has led to progress on the classification of semisimple Hopf algebras and on the structure of pointed Hopf algebras Among the topics covered are results toward the classification of finite dimensional Hopf algebras semisimple and non semisimple as well as what is known about the extension theory of Hopf algebras Some papers consider Hopf versions of classical topics such as the Brauer group while others are closer to work in quantum groups The book also explores the connections and applications of Hopf algebras to other fields

Hopf Algebras in Noncommutative Geometry and Physics Stefaan Caenepeel, Fred Van Oystaeyen, 2019-05-07 This comprehensive reference summarizes the proceedings and keynote presentations from a recent conference held in Brussels Belgium Offering 1155

display equations this volume contains original research and survey papers as well as contributions from world renowned algebraists It focuses on new results in classical Hopf algebras as well as the **Braid Groups** Christian Kassel,Vladimir Turaev,2008-06-28 Braids and braid groups the focus of this text have been at the heart of important mathematical developments over the last two decades Their association with permutations has led to their presence in a number of mathematical fields and physics As central objects in knot theory and 3 dimensional topology braid groups has led to the creation of a new field called quantum topology In this well written presentation motivated by numerous examples and problems the authors introduce the basic theory of braid groups highlighting several definitions that show their equivalence this is followed by a treatment of the relationship between braids knots and links Important results then treat the linearity and orderability of the subject Relevant additional material is included in five large appendices Braid Groups will serve graduate students and a number of mathematicians coming from diverse disciplines **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 **Discrete Gauge Theory** Robert Oeckl,2005 This book provides an introduction to topological quantum field theory as well as discrete gauge theory with quantum groups In contrast to much of the existing literature the present approach is at the same time intuitive and mathematically rigorous making extensive use of suitable diagrammatic methods It provides a highly unified description of lattice gauge theory topological quantum field theory and models of quantum super gravity The reader is thus in a unique position to understand the relations between these subjects as well as the underlying groundwork *Twenty Years of Bialowieza* Syed Twareque Ali,2005 This volume marks the twentieth anniversary of the Bialowieza series of meetings on Differential Geometric Methods in Physics the anniversary meeting was held during July 1 7 2001 The Bialowieza meetings held every year during the first week of July have now grown into an annual pilgrimage for an international group of physicists and mathematicians The topics discussed at the meetings while within the broad area of differential geometric methods in physics have focused around quantization coherent states infinite dimensional systems symplectic geometry spectral theory and harmonic analysis The present volume brings together a set of specially invited papers from leading experts in the various fields who have contributed to these meetings and whose work represents a cross section of the topics discussed Consequently rather than a proceedings volume this book embodies the spirit of the Bialowieza workshops and reflects their scientific tenor as a tribute to the completion of two decades of a shared scientific experience This book will be of interest to researchers and graduate students working in the area of differential geometric methods in physics as it gives interesting glimpses into the present state of the art from different points of view *Applications of Group Theory in Cryptography* Delaram Kahrobaei,Ramón Flores,Marialaura Noce,Maggie E. Habeeb,Christopher Battarbee,2024-03-25 This book is intended as a comprehensive treatment of group based cryptography accessible to both mathematicians and

computer scientists with emphasis on the most recent developments in the area To make it accessible to a broad range of readers the authors started with a treatment of elementary topics in group theory combinatorics and complexity theory as well as providing an overview of classical public key cryptography Then some algorithmic problems arising in group theory are presented and cryptosystems based on these problems and their respective cryptanalyses are described The book also provides an introduction to ideas in quantum cryptanalysis especially with respect to the goal of post quantum group based cryptography as a candidate for quantum resistant cryptography The final part of the book provides a description of various classes of groups and their suitability as platforms for group based cryptography The book is a monograph addressed to graduate students and researchers in both mathematics and computer science

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