

Nankai Lectures on Mathematical Physics

Introduction to Quantum Group and Integrable Massive Models of Quantum Field Theory

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Mo-Lin Ge

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Introduction To Quantum Group And Integrable Models Of Quantum Field Theory

M. Jimbo, T. Miwa, A. Tsuchiya



Introduction To Quantum Group And Integrable Massive Models Of Quantum Field Theory:

Introduction To Quantum Group And Integrable Massive Models Of Quantum Field Theory Mo-lin Ge, Bao-heng Zhao, 1990-09-24 The Proceedings consists of 6 lectures each from Prof L Takhtajan and Prof F Smirnov which were presented during the workshop *Introduction to Quantum Group and Integrable Massive Models of Quantum Field Theory*

, 1990 **Quantum Groups in Two-Dimensional Physics** Cisar Gómez, Martm Ruiz-Altaba, German Sierra, 1996-04-18 This book is an introduction to integrability and conformal field theory in two dimensions using quantum groups The book begins with a brief introduction to S matrices spin chains and vertex models as a prelude to the study of Yang Baxter algebras and the Bethe ansatz The authors then introduce the basic ideas of integrable systems giving particular emphasis to vertex and face models They give special attention to the underlying mathematical tools including braid groups knot invariants and towers of algebras The authors then go on to give a detailed introduction to quantum groups before addressing integrable models two dimensional conformal field theories and superconformal field theories The book contains many diagrams and exercises to illustrate key points in the text and will be appropriate for researchers and graduate students in theoretical physics and mathematics [Integrable Systems, Quantum Groups, and Quantum Field Theories](#) Alberto Iborra, M.A. Rodríguez, 2012-12-06

In many ways the last decade has witnessed a surge of interest in the interplay between theoretical physics and some traditional areas of pure mathematics This book contains the lectures delivered at the NATO ASI Summer School on Recent Problems in Mathematical Physics held at Salamanca Spain 1992 offering a pedagogical and updated approach to some of the problems that have been at the heart of these events Among them we should mention the new mathematical structures related to integrability and quantum field theories such as quantum groups conformal field theories integrable statistical models and topological quantum field theories that are discussed at length by some of the leading experts on the areas in several of the lectures contained in the book Apart from these traditional and new problems in quantum gravity are reviewed Other contributions to the School included in the book range from symmetries in partial differential equations to geometrical phases in quantum physics The book is addressed to researchers in the fields covered PhD students and any scientist interested in obtaining an updated view of the subjects **Quantum Group And Quantum Integrable Systems - Nankai Lectures On Mathematical Physics** Mo-lin Ge, 1992-05-30

This volume contains the lectures given by the three speakers M Jimbo P P Kulish and E K Sklyanin who are outstanding experts in their field It is essential reading to those working in the fields of Quantum Groups and Integrable Systems **Integrable Structures of Exactly Solvable Two-Dimensional Models of Quantum Field Theory** S. Pakuliak, G. von Gehlen, 2012-12-06 Integrable quantum field theories and integrable lattice models have been studied for several decades but during the last few years new ideas have emerged that have considerably changed the topic The first group of papers published here is concerned with integrable structures of quantum lattice models related to quantum group symmetries The second group deals with the

description of integrable structures in two dimensional quantum field theories especially boundary problems thermodynamic Bethe ansatz and form factor problems Finally a major group of papers is concerned with the purely mathematical framework that underlies the physically motivated research on quantum integrable models including elliptic deformations of groups representation theory of non compact quantum groups and quantization of moduli spaces *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

Integrable Systems in Quantum Field Theory and Statistical Mechanics

M. Jimbo, T. Miwa, A. Tsuchiya, 2014-05-19 Integrable Sys Quantum Field Theory **Quantum Theory, Groups and Representations** Peter Woit, 2017-11-01 This text systematically presents the basics of quantum mechanics emphasizing the role of Lie groups Lie algebras and their unitary representations The mathematical structure of the subject is brought to the fore intentionally avoiding significant overlap with material from standard physics courses in quantum mechanics and quantum field theory The level of presentation is attractive to mathematics students looking to learn about both quantum mechanics and representation theory while also appealing to physics students who would like to know more about the mathematics underlying the subject This text showcases the numerous differences between typical mathematical and physical treatments of the subject The latter portions of the book focus on central mathematical objects that occur in the Standard Model of particle physics underlining the deep and intimate connections between mathematics and the physical world While an elementary physics course of some kind would be helpful to the reader no specific background in physics is assumed making this book accessible to students with a grounding in multivariable calculus and linear algebra Many exercises are provided to develop the reader's understanding of and facility in quantum theoretical concepts and calculations

Structural Aspects Of Quantum Field Theory (In 2 Volumes) Gerhard Grensing, 2013-05-21 The book is primarily addressed to physicists Nevertheless as numerous examples are known in which exploration of the land where physics and mathematics overlap and which quantum field theory definitely belongs to resulted in important developments in

mathematics many mathematicians may also find this book interesting and even inspiring MathSciNet This book is devoted to the subject of quantum field theory It is divided into two volumes The first can serve as a textbook on the main techniques and results of quantum field theory while the second treats more recent developments in particular the subject of quantum groups and noncommutative geometry and their interrelation The first volume is directed at graduate students who want to learn the basic facts about quantum field theory It begins with a gentle introduction to classical field theory including the standard model of particle physics general relativity and also supergravity The transition to quantized fields is performed with path integral techniques by means of which the one loop renormalization of a self interacting scalar quantum field of quantum electrodynamics and the asymptotic freedom of quantum chromodynamics is treated In the last part of the first volume the application of path integral methods to systems of quantum statistical mechanics is covered The book ends with a rather detailed investigation of the fractional quantum Hall effect and gives a stringent derivation of Laughlin's trial ground state wave function as an exact ground state The second volume covers more advanced themes In particular Connes noncommutative geometry is dealt with in some considerable detail the presentation attempts to acquaint the physics community with the substantial achievements that have been reached by means of this approach towards the understanding of the elusive Higgs particle The book also covers the subject of quantum groups and its application to the fractional quantum Hall effect as it is for this paradigmatic physical system that noncommutative geometry and quantum groups can be brought together

Introduction to Quantum Groups and Crystal Bases Jin Hong, Seok-Jin Kang, 2025-02-06 The notion of a quantum group was introduced by V G Drinfeld and M Jimbo independently in their study of the quantum Yang Baxter equation arising from 2 dimensional solvable lattice models Quantum groups are certain families of Hopf algebras that are deformations of universal enveloping algebras of Kac Moody algebras And over the past 20 years they have turned out to be the fundamental algebraic structure behind many branches of mathematics and mathematical physics such as solvable lattice models in statistical mechanics topological invariant theory of links and knots representation theory of Kac Moody algebras representation theory of algebraic structures topological quantum field theory geometric representation theory and C algebras In particular the theory of crystal bases or canonical bases developed independently by M Kashiwara and G Lusztig provides a powerful combinatorial and geometric tool to study the representations of quantum groups 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

Quantum Groups Heinz Dietrich Doebner, 1990 A thorough analysis of exactly soluble models in nonlinear classical systems and in quantum systems as well as recent studies in conformal quantum field theory have revealed the structure of quantum groups to be an interesting and rich framework for mathematical and physical problems In this book for the first time authors from different schools review in an intelligible way the various competing approaches inverse scattering methods 2 dimensional statistical models Yang Baxter algebras the Bethe ansatz conformal

quantum field theory representations braid group statistics noncommutative geometry and harmonic analysis

An Introduction to Non-Perturbative Foundations of Quantum Field Theory Franco Strocchi, 2013-02-14 Quantum Field Theory

QFT has proved to be the most useful strategy for the description of elementary particle interactions and as such is regarded as a fundamental part of modern theoretical physics In most presentations the emphasis is on the effectiveness of the theory in producing experimentally testable predictions which at present essentially means Perturbative QFT However after more than fifty years of QFT we still are in the embarrassing situation of not knowing a single non trivial even non realistic model of QFT in 3+1 dimensions allowing a non perturbative control As a reaction to these consistency problems one may take the position that they are related to our ignorance of the physics of small distances and that QFT is only an effective theory so that radically new ideas are needed for a consistent quantum theory of relativistic interactions in 3+1 dimensions The book starts by discussing the conflict between locality or hyperbolicity and positivity of the energy for relativistic wave equations which marks the origin of quantum field theory and the mathematical problems of the perturbative expansion canonical quantization interaction picture non Fock representation asymptotic convergence of the series etc The general physical principles of positivity of the energy Poincare covariance and locality provide a substitute for canonical quantization qualify the non perturbative foundation and lead to very relevant results like the Spin statistics theorem TCP symmetry a substitute for canonical quantization non canonical behaviour the euclidean formulation at the basis of the functional integral approach the non perturbative definition of the S matrix LSZ Haag Ruelle Buchholz theory A characteristic feature of gauge field theories is Gauss law constraint It is responsible for the conflict between locality of the charged fields and positivity it yields the superselection of the unbroken gauge charges provides a non perturbative explanation of the Higgs mechanism in the local gauges implies the infraparticle structure of the charged particles in QED and the breaking of the Lorentz group in the charged sectors A non perturbative proof of the Higgs mechanism is discussed in the Coulomb gauge the vector bosons corresponding to the broken generators are massive and their two point function dominates the Goldstone spectrum thus excluding the occurrence of massless Goldstone bosons The solution of the U(1) problem in QCD the theta vacuum structure and the inevitable breaking of the chiral symmetry in each theta sector are derived solely from the topology of the gauge group without relying on the semiclassical instanton approximation

Lectures on Quantum Field Theory and Functional Integration Zbigniew Haba, 2023-05-29 This book offers a concise introduction to quantum field theory and functional integration for students of physics and mathematics Its aim is to explain mathematical methods developed in the 1970s and 1980s and apply these methods to standard models of quantum field theory In contrast to other textbooks on quantum field theory this book treats functional integration as a rigorous mathematical tool More emphasis is placed on the mathematical framework as opposed to applications to particle physics It is stressed that the functional integral approach unlike the operator framework is suitable for numerical simulations The book arose from the author's teaching in Wroclaw and

preserves the form of his lectures So some topics are treated as an introduction to the problem rather than a complete solution with all details Some of the mathematical methods described in the book resulted from the author s own research

Introduction To Quantum Groups Masud Chaichian, Andrei Demichev, 1996-11-22 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 *Discrete*

Integrable Systems J.J. Duistermaat, 2010-08-15 This book is devoted to Quisped Roberts and Thompson QRT maps considered as automorphisms of rational elliptic surfaces The theory of QRT maps arose from problems in mathematical physics involving difference equations The application of QRT maps to these and other problems in the literature including Poncelet mapping and the elliptic billiard is examined in detail The link between elliptic fibrations and completely integrable Hamiltonian systems is also discussed The book begins with a comprehensive overview of the subject including QRT maps singularity confinement automorphisms of rational elliptic surfaces action on homology classes and periodic QRT maps Later chapters cover these topics and more in detail While QRT maps will be familiar to specialists in algebraic geometry the present volume makes the subject accessible to mathematicians and graduate students in a classroom setting or for self study **Introduction to Quantum Groups** George Lusztig, 1993 **Quantum Groups** Petr P. Kulish, 2007-02-08 The

theory of Quantum Groups is a rapidly developing area with numerous applications in mathematics and theoretical physics e g in link and knot invariants in topology q special functions conformal field theory quantum integrable models The aim of the Euler Institute s workshops was to review and compile the progress achieved in the different subfields Near 100 participants came from 14 countries More than 20 contributions written up for this book contain new unpublished material and half of them include a survey of recent results in the field deformation theory graded differential algebras contraction technique knot invariants q special functions FROM THE CONTENTS V G Drinfeld On Some Unsolved Problems in Quantum Group Theory M Gerstenhaber A Giaquinto S D Schack Quantum Symmetry L I Korogodsky L L Vaksman Quantum G Spaces and Heisenberg Algebra J Stasheff Differential Graded Lie Algebras Quasi Hopf Algebras and Higher Homotopy Algebras A Yu

Alekseev L D Faddeev M A Semenov Tian Shansky Hidden Quantum Groups inside Kac Moody Algebras J L Gervais Quantum Group Symmetry of 2D Gravity T Kohno Invariants of 3 Manifolds Based on Conformal Field Theory and Heegaard Splitting O Viro Moves of Triangulations of a PL Manifold **Quantum Field Theory and Condensed Matter** Ramamurti

Shankar, 2017-08-30 Providing a broad review of many techniques and their application to condensed matter systems this book begins with a review of thermodynamics and statistical mechanics before moving onto real and imaginary time path integrals and the link between Euclidean quantum mechanics and statistical mechanics A detailed study of the Ising gauge Ising and XY models is included The renormalization group is developed and applied to critical phenomena Fermi liquid theory and the renormalization of field theories Next the book explores bosonization and its applications to one dimensional fermionic systems and the correlation functions of homogeneous and random bond Ising models It concludes with Bohm Pines and Chern Simons theories applied to the quantum Hall effect Introducing the reader to a variety of techniques it opens up vast areas of condensed matter theory for both graduate students and researchers in theoretical statistical and condensed matter physics **Quantum Field Theory and the Standard Model** Matthew D. Schwartz, 2014 A modern introduction to quantum field theory for graduates providing intuitive physical explanations supported by real world applications and homework problems

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