



Integrable Structures of Exactly Solvable Two-Dimensional Models of Quantum Field Theory

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Integrable Structures Of Exactly Solvable Two Dimensional Models Of Quantum Field Theory

Athanase Papadopoulos



Integrable Structures Of Exactly Solvable Two Dimensional Models Of Quantum Field Theory:

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

Elements of Classical and Quantum Integrable Systems Gleb Arutyunov, 2019-07-23 Integrable models have a fascinating history with many important discoveries that dates back to the famous Kepler problem of planetary motion Nowadays it is well recognised that integrable systems play a ubiquitous role in many research areas ranging from quantum field theory string theory solvable models of statistical mechanics black hole physics quantum chaos and the AdS CFT correspondence to pure mathematics such as representation theory harmonic analysis random matrix theory and complex geometry Starting with the Liouville theorem and finite dimensional integrable models this book covers the basic concepts of integrability including elements of the modern geometric approach based on Poisson reduction classical and quantum factorised scattering and various incarnations of the Bethe Ansatz Applications of integrability methods are illustrated in vast detail on the concrete examples of the Calogero Moser Sutherland and Ruijsenaars Schneider models the Heisenberg spin chain and the one dimensional Bose gas interacting via a delta function potential This book has intermediate and advanced topics with details to make them clearly comprehensible Non-perturbative Methods in 2 Dimensional Quantum Field Theory Elcio

Abdalla, M. Cristina B. Abdalla, Klaus Dieter Rothe, 2001 The second edition of Non Perturbative Methods in Two Dimensional Quantum Field Theory is an extensively revised version involving major changes and additions Although much of the material is special to two dimensions the techniques used should prove helpful also in the development of techniques applicable in higher dimensions In particular the last three chapters of the book will be of direct interest to researchers wanting to work in the field of conformal field theory and strings This book is intended for students working for their PhD degree and post doctoral researchers wishing to acquaint themselves with the non perturbative aspects of quantum field theory *Algebraic Aspects of Darboux Transformations, Quantum Integrable Systems and Supersymmetric Quantum Mechanics* Primitivo B. Acosta Humanez, 2012 This volume represents the 2010 Jairo Charris Seminar in Algebraic Aspects of Darboux Transformations Quantum Integrable Systems and Supersymmetric Quantum Mechanics which was held at the Universidad Sergio Arboleda in Santa Marta Colombia The papers cover the fields of Supersymmetric Quantum Mechanics and Quantum

Integrable Systems from an algebraic point of view Some results presented in this volume correspond to the analysis of Darboux Transformations in higher order as well as some exceptional orthogonal polynomials The reader will find an interesting Galois approach to study finite gap potentials This book is published in cooperation with Instituto de Matematicas y sus Aplicaciones IMA **Planar Ising Correlations** John Palmer, 2007-07-27 Steady progress in recent years has been made in understanding the special mathematical features of certain exactly solvable models in statistical mechanics and quantum field theory including the scaling limits of the 2 D Ising lattice model and more generally a class of 2 D quantum fields known as holonomic fields New results have made it possible to obtain a detailed nonperturbative analysis of the multi spin correlations In particular the book focuses on deformation analysis of the scaling functions of the Ising model and will appeal to graduate students mathematicians and physicists interested in the mathematics of statistical mechanics and quantum field theory **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

Quantum Groups Benjamin Enriquez, 2008 The volume starts with a lecture course by P Etingof on tensor categories notes by D Calaque This course is an introduction to tensor categories leading to topics of recent research such as realizability of fusion rings Ocneanu rigidity module categories weak Hopf algebras Morita theory for tensor categories lifting theory categorical dimensions Frobenius Perron dimensions and the classification of tensor categories The remainder of the book consists of three detailed expositions on associators and the Vassiliev invariants of knots classical and quantum integrable systems and elliptic algebras and the groups of algebra automorphisms of quantum groups The preface puts the results presented in perspective Directed at research mathematicians and theoretical physicists as well as graduate students the volume gives an overview of the ongoing research in the domain of quantum groups an important subject of current mathematical physics **Symmetries, Integrable Systems and Representations** Kenji Iohara, Sophie Morier-Genoud, Bertrand Rémy, 2012-12-06 This volume is the result of two international workshops Infinite Analysis 11 Frontier of Integrability held at University of Tokyo Japan in July 25th to 29th 2011 and Symmetries Integrable Systems and Representations held at Universit Claude Bernard Lyon 1 France in December 13th to 16th 2011 Included are research

articles based on the talks presented at the workshops latest results obtained thereafter and some review articles The subjects discussed range across diverse areas such as algebraic geometry combinatorics differential equations integrable systems representation theory solvable lattice models and special functions Through these topics the reader will find some recent developments in the field of mathematical physics and their interactions with several other domains

Shuffle Approach Towards Quantum Affine and Toroidal Algebras Alexander Tsymbaliuk, 2023-08-07 This book is based on the author's mini course delivered at Tokyo University of Marine Science and Technology in March 2019 The shuffle approach to Drinfeld Jimbo quantum groups of finite type embedding their positive subalgebras into q deformed shuffle algebras was first developed independently in the 1990s by J Green M Rosso and P Schauenburg Motivated by similar ideas B Feigin and A Odesskii proposed a shuffle approach to elliptic quantum groups around the same time The shuffle algebras in the present book can be viewed as trigonometric degenerations of the Feigin Odesskii elliptic shuffle algebras They provide combinatorial models for the positive subalgebras of quantum affine algebras in their loop realizations These algebras appeared first in that context in the work of B Enriquez Over the last decade the shuffle approach has been applied to various problems in combinatorics combinatorics of Macdonald polynomials and Dyck paths generalization to wreath Macdonald polynomials and operators geometric representation theory especially the study of quantum algebras actions on the equivariant K theories of various moduli spaces such as affine Laumon spaces Nakajima quiver varieties nested Hilbert schemes and mathematical physics the Bethe ansatz quantum Q systems and quantized Coulomb branches of quiver gauge theories to name just a few While this area is still under active investigation the present book focuses on quantum affine toroidal algebras of type A and their shuffle realization which have already illustrated a broad spectrum of techniques The basic results and structures discussed in the book are of crucial importance for studying intrinsic properties of quantum affinized algebras and are instrumental to the aforementioned applications

An Invitation to Noncommutative Geometry Masoud Khalkhali, Matilde Marcolli, 2008 This is the first existing volume that collects lectures on this important and fast developing subject in mathematics The lectures are given by leading experts in the field and the range of topics is kept as broad as possible by including both the algebraic and the differential aspects of noncommutative geometry as well as recent applications to theoretical physics and number theory

Handbook of Teichmüller Theory Athanase Papadopoulos, 2007 The Teichmüller space of a surface was introduced by O Teichmüller in the 1930s It is a basic tool in the study of Riemann's moduli spaces and the mapping class groups These objects are fundamental in several fields of mathematics including algebraic geometry number theory topology geometry and dynamics The original setting of Teichmüller theory is complex analysis The work of Thurston in the 1970s brought techniques of hyperbolic geometry to the study of Teichmüller space and its asymptotic geometry Teichmüller spaces are also studied from the point of view of the representation theory of the fundamental group of the surface in a Lie group G most notably $G = \mathrm{PSL}(2, \mathbb{R})$ and

In the 1980s there evolved an essentially combinatorial treatment of the Teichmüller and moduli spaces involving techniques and ideas from high energy physics namely from string theory. The current research interests include the quantization of Teichmüller space, the Weil-Petersson symplectic and Poisson geometry of this space as well as gauge theoretic extensions of these structures. The quantization theories can lead to new invariants of hyperbolic 3-manifolds. The purpose of this handbook is to give a panorama of some of the most important aspects of Teichmüller theory. The handbook should be useful to specialists in the field, to graduate students and more generally to mathematicians who want to learn about the subject. All the chapters are self-contained and have a pedagogical character. They are written by leading experts in the subject.

Lie Theory and Its Applications in Physics Vladimir Dobrev, 2015-01-26. 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, infinite dimensional Lie algebras and groups, superalgebras and supergroups, groups and quantum groups, noncommutative geometry, symmetries of linear and nonlinear PDE, special functions and others. Furthermore, the necessary tools from functional analysis and number theory are included. This is a big interdisciplinary and interrelated field. Samples of these fresh trends are presented in this volume based on contributions from the Workshop Lie Theory and Its Applications in Physics held near Varna, Bulgaria, in June 2013. This book is suitable for a broad audience of mathematicians, mathematical physicists and theoretical physicists and researchers in the field of Lie 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 to 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 **Geometric Representation Theory and Gauge Theory** Alexander Braverman, Michael Finkelberg, Andrei Negut, Alexei Oblomkov, 2019-11-22 This book offers a review of the vibrant areas of geometric representation theory and gauge theory which are characterized by a merging of traditional techniques in representation theory with the use of powerful tools from algebraic geometry and with strong inputs from physics The notes are based on lectures delivered at the CIME school Geometric Representation Theory and Gauge Theory held in Cetraro Italy in June 2018 They comprise three contributions due to Alexander Braverman and Michael Finkelberg Andrei Negut and Alexei Oblomkov respectively Braverman and Finkelberg's notes review the mathematical theory of the Coulomb branch of 3D $N=4$ quantum gauge theories The purpose of Negut's notes is to study moduli spaces of sheaves on a surface as well as Hecke correspondences between them Oblomkov's notes concern matrix factorizations and knot homology This book will appeal to both mathematicians and theoretical physicists and will be a source of inspiration for PhD students and researchers

Partitions, q-Series, and Modular Forms Krishnaswami Alladi, Frank Garvan, 2011-11-01 Partitions q Series and Modular Forms contains a collection of research and survey papers that grew out of a Conference on Partitions q Series and Modular Forms at the University of Florida Gainesville in March 2008 It will be of interest to researchers and graduate students that would like to learn of recent developments in the theory of q series and modular and how it relates to number theory combinatorics and special functions *Asymptotic Combinatorics with Application to Mathematical Physics* V.A. Malyshev, A.M. Vershik, 2012-12-06 New and striking results obtained in recent years from an intensive study of asymptotic combinatorics have led to a new higher level of understanding of related problems the theory of integrable systems the Riemann Hilbert problem asymptotic representation theory spectra of random matrices combinatorics of Young diagrams and permutations and even some aspects of quantum field theory **Encyclopedia of Nonlinear Science** Alwyn

Scott, 2006-05-17 In 438 alphabetically arranged essays this work provides a useful overview of the core mathematical background for nonlinear science as well as its applications to key problems in ecology and biological systems chemical reaction diffusion problems geophysics economics electrical and mechanical oscillations in engineering systems lasers and nonlinear optics fluid mechanics and turbulence and condensed matter physics among others **Energy Research**

Abstracts, 1995 **New Dualities of Supersymmetric Gauge Theories** Jörg Teschner, 2015-11-17 This book reviews a number of spectacular advances that have been made in the study of supersymmetric quantum field theories in the last few years Highlights include exact calculations of Wilson loop expectation values and highly nontrivial quantitative checks of the long standing electric magnetic duality conjectures The book starts with an introductory article presenting a survey of recent advances aimed at a wide audience with a background and interest in theoretical physics The following articles are written for advanced students and researchers in quantum field theory string theory and mathematical physics our goal being to familiarize these readers with the forefront of current research The topics covered include recent advances in the

classification and vacuum structure of large families of $N = 2$ supersymmetric field theories followed by an extensive discussion of the localisation method one of the most powerful tools for exact studies of supersymmetric field theories The quantities that have been studied in this way are partition functions expectation values of line operators and supersymmetric indices The book also reviews recently discovered connections between SUSY field theories in four dimensions and two dimensional conformal field theory These connections have a counterpart in relations between three dimensional gauge theories and Chern Simons theory the book s closing chapters explore connections with string theory

Proceedings of 6th International Workshop on Conformal Field Theory and Integrable Models Alexander Belavin, 2004

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