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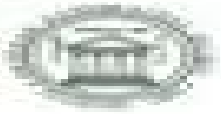
Algebraic Analysis of Solvable Lattice Models

Michio Jimbo
Tetsuji Miwa



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Algebraic Analysis Of Solvable Lattice Models

Danuta Przeworska-Rolewicz

Algebraic Analysis Of Solvable Lattice Models:

Algebraic Analysis of Solvable Lattice Models Michio Jimbo,Tetsuji Miwa,1995 Based on the NSF CBMS Regional Conference lectures presented by Miwa in June 1993 this book surveys recent developments in the interplay between solvable lattice models in statistical mechanics and representation theory of quantum affine algebras Because results in this subject were scattered in the literature this book fills the need for a systematic account focusing attention on fundamentals without assuming prior knowledge about lattice models or representation theory After a brief account of basic principles in statistical mechanics the authors discuss the standard subjects concerning solvable lattice models in statistical mechanics the main examples being the spin 1 2 XXZ chain and the six vertex model The book goes on to introduce the main objects of study the corner transfer matrices and the vertex operators and discusses some of their aspects from the viewpoint of physics Once the physical motivations are in place the authors return to the mathematics covering the Frenkel Jing bosonization of a certain module formulas for the vertex operators using bosons the role of representation theory and correlation functions and form factors The limit of the XXX model is briefly discussed and the book closes with a discussion of other types of models and related works *Conformal Field Theory and Solvable Lattice Models* M Jimbo,2012-12-02 Advanced Studies in Pure Mathematics 16 Conformal Field Theory and Solvable Lattice Models contains nine papers based on the symposium Conformal field theory and solvable lattice models held at RIMS Kyoto May 1986 These papers cover the following active areas in mathematical physics conformal field theory solvable lattice models affine and Virasoro algebra and KP equations The volume begins with an analysis of 1 and 2 point correlation functions of the Gibbs measure of random matrices This is followed by separate chapters on solvable solid on solid SOS models lectures on conformal field theory the construction of Fermion variables for the 3D Ising Model and vertex operator construction of null fields singular vertex operators based on the oscillator representation of conformal and superconformal algebras with central charge extention Subsequent chapters deal with Hecke algebra representations of braid groups and classical Yang Baxter equations the relationship between the conformal field theories and the soliton equations KdV MKdV and Sine Gordon etc at both quantum and classical levels and a supersymmetric extension of the Kadomtsev Petviashvili hierarchy *Lectures On Infinite-dimensional Lie Algebra* Minoru Wakimoto,2001-10-26 The representation theory of affine Lie algebras has been developed in close connection with various areas of mathematics and mathematical physics in the last two decades There are three excellent books on it written by Victor G Kac This book begins with a survey and review of the material treated in Kac s books In particular modular invariance and conformal invariance are explained in more detail The book then goes further dealing with some of the recent topics involving the representation theory of affine Lie algebras Since these topics are important not only in themselves but also in their application to some areas of mathematics and mathematical physics the book expounds them with examples and detailed calculations *Algebraic Analysis* Masaki Kashiwara,Takahiro Kawai,2014-05-10 Algebraic Analysis Papers

Dedicated to Professor Mikio Sato on the Occasion of his 60th Birthday Volume I is a collection of research papers on algebraic analysis and related topics in honor to Professor Mikio Sato s 60th birthday This volume is composed of 35 chapters and begins with papers concerning Sato s early career in algebraic analysis The succeeding chapters deal with research works on the existence of local holomorphic solutions the holonomic q difference systems partial differential equations and the properties of solvable models Other chapters explore the fundamentals of hypergeometric functions the Toda lattice in the complex domain the Lie algebras b functions p adic integrals analytic parameters of hyperfunctions and some applicatioins of microlocal energy methods to analytic hypoellipticity This volume also presents studies on the complex powers of p adic fields operational calculus extensions of microfunction sheaves up to the boundary and the irregularity of holonomic modules The last chapters feature research works on error analysis of quadrature formulas obtained by variable transformation and the analytic functional on the complex light cone as well as their Fourier Borel transformations This book will prove useful to mathematicians and advance mathematics students **Algebraic Bethe Ansatz And Correlation Functions: An Advanced Course** Nikita Slavnov,2022-05-12 It is unlikely that today there is a specialist in theoretical physics who has not heard anything about the algebraic Bethe ansatz Over the past few years this method has been actively used in quantum statistical physics models condensed matter physics gauge field theories and string theory This book presents the state of the art research in the field of algebraic Bethe ansatz Along with the results that have already become classic the book also contains the results obtained in recent years The reader will get acquainted with the solution of the spectral problem and more complex problems that are solved using this method Various methods for calculating scalar products and form factors are described in detail Special attention is paid to applying the algebraic Bethe ansatz to the calculation of the correlation functions of quantum integrable models The book also elaborates on multiple integral representations for correlation functions and examples of calculating the long distance asymptotics of correlations This text is intended for advanced undergraduate and postgraduate students and specialists interested in the mathematical methods of studying physical systems that allow them to obtain exact results **Yang-baxter Equation In Integrable Systems** Michio Jimbo,1990-03-01 This volume will be the first reference book devoted specially to the Yang Baxter equation The subject relates to broad areas including solvable models in statistical mechanics factorized S matrices quantum inverse scattering method quantum groups knot theory and conformal field theory The articles assembled here cover major works from the pioneering papers to classical Yang Baxter equation its quantization variety of solutions constructions and recent generalizations to higher genus solutions a **Algebraic Analysis and Related Topics** Danuta Przeworska-Rolewicz,2000

Particles and Fields Gordon W. Semenoff,Luc Vinet,2012-12-06 The focus of this volume is on quantum field theory inegrable theories statistical systems and applications to condensed matter physics It covers some of the most significant recent advances in theoretical physics at a level accessible to advanced graduate students The contributions each by a noted

researcher dicuss such topics as some remarkable features of integrable Toda field theories E Corrigan properties of a gas of interacting Fermions in a lattice of magnetic ions J Feldman al how quantum groups arise in three dimensional topological quantum field thory D Freed a method for computing correlation functions of solvable lattice models T Miwa matrix models discussed from the point of view of integrable systems A Morozov localization of path integrals in certain equivariant cohomologies A Niemi Calogero Moser systems S Ruijsenaars planar gauge theories with broken symmetries M de Wild Propitius F A Bais quantum Hall fluids A Capelli al spectral theory of quantum vortex operators P I Ettinghoff *Journal of Physics A* ,2002 Focuses on fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory Algebraic Analysis and Around Masaki Kashiwara,2009 The present volume is the proceedings of the conference Algebraic Analysis and Around in honor of Professor Masaki Kashiwara s 60th birthday held in Kyoto in June 2007 Most of the papers contributed in this volume are based on the talks given in the conference and the subjects discussed here contain D modules micro local analysis representation theory integrable systems to which Kashiwara s contribution and influence are really profound The readers may find groundbreaking materials for the future in mathematics Published by Mathematical Society of Japan and distributed by World Scientific Publishing Co for all markets except North America Journal of the Physical Society of Japan ,2000 **XIth International Congress of Mathematical Physics** Daniel Iagolnitzer,1995 Over 1000 mathematicians participated in the Paris International Conference on Mathematical Physics and its satellite conference on topology strings and integrable models This volume contains some of the highlights including topics such as conformable field theory and general relativity *Physics Letters* ,1997 **Mathematical Reviews** ,1996 Directory of Published Proceedings ,1996 **The Cumulative Book Index** ,1996 A world list of books in the English language **Combinatorial Aspect of Integrable Systems** Arkady Berenstein,2007 This volume is a collection of six papers based on the expository lectures of the workshop Combinatorial Aspect of Integrable Systems held at RIMS during July 26 30 2004 as a part of the Project Research 2004 Method of Algebraic Analysis in Integrable Systems The topics range over crystal bases of quantum groups its algebra geometric analogue known as geometric crystal generalizations of Robinson Schensted type correspondence fermionic formula related to Bethe ansatz applications of crystal bases to soliton celluar automata Yang Baxter maps and integrable discrete dynamics All the papers are friendly written with many illustrative examples and intimately related to each other This volume will serve as a good guide for researchers and graduate students who are interested in this fascinating subject Published by Mathematical Society of Japan and distributed by World Scientific Publishing Co for all markets **The Asian Journal of Mathematics** ,1998 The Bulletin of Mathematics Books ,1992 **St. Petersburg Mathematical Journal** ,2006

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