YANG-BAXTER EQUATION IN INTEGRABLE SYSTEMS

Editor
Michio Jimbo

Yang Baxter Equation In Interpable Systems

Marcel A. Müller

Yang Baxter Equation In Interpable Systems:

   Yang-Baxter Equation in Integrable Systems Michio Jimbo,1990 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   **The Dynamical Yang-Baxter Equation, Representation Theory, and Quantum Integrable Systems** Pavel I. Etingof,Frederic Latour,2005 The text is based on an established graduate course given at MIT that provides an introduction to the theory of the dynamical Yang Baxter equation and its applications which is an important area in representation theory and quantum groups The book which contains many detailed proofs and explicit calculations will be accessible to graduate students of mathematics who are familiar with the basics of representation theory of semisimple Lie algebras   **The Yang-Baxter Equation for Integrable Systems** University of Minnesota. Institute for Mathematics and Its Applications,F.-C. Pu,D. H. Sattinger,1989   The Dynamical Yang-Baxter Equation, Representation Theory, and Quantum Integrable Systems Pavel I. Etingof,Frédéric Latour,2023 This text is based on an established graduate course given at MIT that provides an introduction to the theory of the dynamical Yang Baxter equation and its applications which is an important area in representation theory and quantum groups   **Classical and Quantum Nonlinear Integrable Systems** A Kundu,2019-04-23 Covering both classical and quantum models nonlinear integrable systems are of considerable theoretical and practical interest with applications over a wide range of topics including water waves pin models nonlinear optics correlated electron systems plasma physics and reaction diffusion processes Comprising one part on classical theories   *Hopf Algebras, Quantum Groups and Yang-Baxter Equations* Florin Felix Nichita,2019-01-30 The Yang Baxter equation first appeared in theoretical physics in a paper by the Nobel laureate C N Yang and in the work of R J Baxter in the field of Statistical Mechanics At the 1990 International Mathematics Congress Vladimir Drinfeld Vaughan F R Jones and Edward Witten were awarded Fields Medals for their work related to the Yang Baxter equation It turned out that this equation is one of the basic equations in mathematical physics more precisely it is used for introducing the theory of quantum groups It also plays a crucial role in knot theory braided categories the analysis of integrable systems non commutative descent theory quantum computing non commutative geometry etc Many scientists have used the axioms of various algebraic structures quasi triangular Hopf algebras Yetter Drinfeld categories quandles group actions Lie super algebras brace structures co algebra structures Jordan triples Boolean algebras relations on sets etc or computer calculations and Grobner bases in order to produce solutions for the Yang Baxter equation However the full classification of its solutions remains an open problem At present the study of solutions of the Yang Baxter equation attracts the attention of a broad circle of scientists The current volume highlights various aspects of the

Yang Baxter equation related algebraic structures and applications **Symmetries and Integrability of Difference Equations** Decio Levi,Raphaël Rebelo,Pavel Winternitz,2017-06-30 This book shows how Lie group and integrability techniques originally developed for differential equations have been adapted to the case of difference equations Difference equations are playing an increasingly important role in the natural sciences Indeed many phenomena are inherently discrete and thus naturally described by difference equations More fundamentally in subatomic physics space time may actually be discrete Differential equations would then just be approximations of more basic discrete ones Moreover when using differential equations to analyze continuous processes it is often necessary to resort to numerical methods This always involves a discretization of the differential equations involved thus replacing them by difference ones Each of the nine peer reviewed chapters in this volume serves as a self contained treatment of a topic containing introductory material as well as the latest research results and exercises Each chapter is presented by one or more early career researchers in the specific field of their expertise and in turn written for early career researchers As a survey of the current state of the art this book will serve as a valuable reference and is particularly well suited as an introduction to the field of symmetries and integrability of difference equations Therefore the book will be welcomed by advanced undergraduate and graduate students as well as by more advanced researchers *Yang–Baxter Deformation of 2D Non-Linear Sigma Models* Kentaroh Yoshida,2021-06-03 In mathematical physics one of the fascinating issues is the study of integrable systems In particular non perturbative techniques that have been developed have triggered significant insight for real physics There are basically two notions of integrability classical integrability and quantum integrability In this book the focus is on the former classical integrability When the system has a finite number of degrees of freedom it has been well captured by the Arnold Liouville theorem However when the number of degrees of freedom is infinite as in classical field theories the integrable structure is enriched profoundly In fact the study of classically integrable field theories has a long history and various kinds of techniques including the classical inverse scattering method which have been developed so far In previously published books these techniques have been collected and well described and are easy to find in traditional standard textbooks One of the intriguing subjects in classically integrable systems is the investigation of deformations preserving integrability Usually it is not considered systematic to perform such a deformation and one must study systems case by case and show the integrability of the deformed systems by constructing the associated Lax pair or action angle variables Recently a new systematic method to perform integrable deformations of 2D non linear sigma models was developed It was invented by C Klimcik in 2002 and the integrability of the deformed sigma models was shown in 2008 The original work was done for 2D principal chiral models but it has been generalized in various directions nowadays In this book the recent progress on this Yang Baxter deformation is described in a pedagogical manner including some simple examples Applications of Yang Baxter deformation to string theory are also described briefly 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 *Quantized Algebra and Physics* Chengming Bai,Mo-Lin Ge,Naihuan Jing,2012 A note on Brauer Schur functions Kazuya Aokage Hiroshi Mizukawa and Hiro Fumi Yamada symbol operators on associative algebras associative Yang Baxter equations and dendriform algebras Chengming Bai Li Guo and Xiang Ni Irreducible Wakimoto like modules for the affine Lie algebra symbol Yun Gao and Ziting Zeng Verma modules over generic exp polynomial Lie algebras Xiangqian Guo Xuewen Liu and Kaiming Zhao A formal infinite dimensional Cauchy problem and its relation to integrable hierarchies G F Helminck E A Panasenko and A O Sergeeva Partially harmonic tensors and quantized Schur Weyl duality Jun Hu and Zhankui Xiao Quantum entanglement and approximation by positive matrices Xiaofen Huang and Naihuan Jing 2 partitions of root systems Bin Li William Wong and Hechun Zhang A survey on weak Hopf algebras Fang Li and Qinxiu Sun The equitable presentation for the quantum algebra Uq f k Yan Pan Meiling Zhu and Libin Li Quantum Groups and Lie Theory Andrew Pressley,2002-01-17 Since its genesis in the early 1980s the subject of quantum groups has grown rapidly By the late 1990s most of the foundational issues had been resolved and many of the outstanding problems clearly formulated To take stock and to discuss the most fruitful directions for future research many of the world s leading figures in this area met at the Durham Symposium on Quantum Groups in the summer of 1999 and this volume provides an excellent overview of the material presented there It includes important surveys of both cyclotomic Hecke algebras and the dynamical Yang Baxter equation Plus contributions which treat the construction and classification of quantum groups or the associated solutions of the quantum Yang Baxter equation The representation theory of quantum groups is discussed as is the function algebra approach to quantum groups and there is a new look at the origins of quantum groups in the theory of integrable systems New Developments Of Integrable Systems And Long-ranged Interaction Models Mo-lin Ge,Yong-shi Wu,1995-05-31 This textbook pitched at the advanced undergraduate to beginning graduate level focuses on mathematical topics of relevance in contemporary physics that are not usually covered in texts at the same level Its main purpose is to help students appreciate and take advantage of the modern trend of very productive symbiosis between physics and mathematics Three major areas are covered 1 linear operators 2 group representations and Lie algebra representations 3 topology and differential geometry The following are noteworthy features of this book the style of

exposition is a fusion of those common in the standard physics and mathematics literatures the level of exposition varies from quite elementary to moderately advanced so that the book is of interest to a wide audience despite the diversity of the topics covered there is a strong degree of thematic unity much care is devoted to detailed cross referencing so that from any part of the book the reader can trace easily where specific concepts or techniques are introduced **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 **Encyclopaedia of Mathematics** Michiel Hazewinkel,1993-01-31 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fme subdivi sion has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques *Integrable Systems And Quantum Groups* Mauro Carfora,Maurizio Martellini,Annalisa Marzuoli,1992-04-30 This volume contains lectures on recent advances in the theory of integrable systems and quantum groups It introduces the reader to attractive areas of current research 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 A Lie Algebraic Study of Some Integrable Systems

Associated with Root Systems J. K. Scholma,1993   **Integral Systems, Solid State Physics and Theory of Phase Transitions** V. V. Dodonov,Vladimir Ivanovich Man'ko,1991   *Quantum Integrable Systems* Asesh Roy Chowdhury,Aninlya Ghose Choudhury,2004-01-28 The study of integrable systems has opened new horizons in classical physics over the past few decades particularly in the subatomic world Yet despite the field now having reached a level of maturity very few books provide an introduction to the field accessible to specialists and nonspecialists alike and none offer a systematic survey of the m   **Chinese Journal of Physics** ,1994

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