Continuum limit of the N=(1|1) supersymmetric Toda lattice hierarchy

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ABSTRACT: Generalizing the graded commutator in superalgebras, we propose a new bracket operation on the space of graded operators with an involution. We show that the Lax representation of the two-dimensional $N=(1|1)$ supersymmetric Toda lattice hierarchy can be realized via the generalized bracket operation; this is important in constructing the semiclassical (continuum) limit of this hierarchy. We construct the continuum limit of the $N=(1|1)$ Toda lattice hierarchy, the dispersionless $N=(1|1)$ Toda hierarchy. In this limit, we obtain the Lax representation, with the generalized graded bracket becoming the corresponding Poisson bracket on the graded phase superspace.

1. Introduction

An integrable $N=(1|1)$ supersymmetric generalization of the two-dimensional bosonic Toda lattice hierarchy (2DTL hierarchy) [1] was proposed in [2], [3]. It is given by an infinite system of evolution equations (flows) for an infinite set of bosonic and fermionic lattice fields evolving in two bosonic and two fermionic infinite "towers" of times; as a subsystem, it involves an $N=(1|1)$ supersymmetric integrable generalization of the 2DTL equation, which is called the $N=(1|1)$ 2DTL in what follows.

Two new infinite series of fermionic flows of the $N=(1|1)$ 2DTL hierarchy were constructed in [4]–[6]. This hierarchy was shown to actually have a higher symmetry, namely, the $N = (2|2)$ supersymmetry. Together with the previously known bosonic flows of the $N=(1|1)$ 2DTL hierarchy, these flows are symmetries of the $N=(1|1)$ 2DTL equation. The continuum limit of that equation with respect to the lattice constant [7] is a three-dimensional nonlinear equation, called the continuum or dispersionless $N=(1|1)$ 2DTL equation.

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Continuum Limit Of The Toda Lattice:

   A Continuum Limit of the Toda Lattice Percy Deift,Kenneth T-R McLaughlin,1998 In this book the authors describe a continuum limit of the Toda ODE system obtained by taking as initial data for the finite lattice successively finer discretizations of two smooth functions Using the integrability of the finite Toda lattice the authors adapt the method introduced by Lax and Levermore for the study of the small dispersion limit of the Korteweg de Vries equations to the case of the Toda lattice A general class of initial data is considered which permits in particular the formation of shocks A feature of the analysis in this book is an extensive use of techniques from the theory of Riemann Hilbert problems *Continuum Limit Of The Toda Lattice* Kenneth Dean T-R Mclaughlin,1995 **A Continuum Limit of the Toda Lattice** Percy Deift,2014-09-11 Content Description January 1998 volume 131 number 624 end of volume Includes bibliographical references **A Continuum Limit of the Toda Lattice** Percy Deift,Kenneth T-R McLaughlin,1994 In this book the authors describe a continuum limit of the Toda ODE system obtained by taking as initial data for the finite lattice successively finer discretizations of two smooth functions A novel feature of the analysis in this book is an extensive use of techniques from the theory of Riemann Hilbert problems **Waves Called Solitons** Michel Remoissenet,2013-04-17 Nonlinearity is a fascinating element of nature whose importance has been appreciated for many years when considering large amplitude wave motions observed in various fields ranging from fluids and plasmas to solid state chemical biological and geological systems Localized large amplitude waves called solitons which propagate without spreading and have particle like properties represent one of the most striking aspects of nonlinear phenomena Although a wealth of literature on the subject including theoretical and numerical studies is available in good recent books and research journals very little material has found its way into introductory texbooks and curricula This is perhaps due to a belief that nonlinear physics is difficult and cannot be taught at an introductory level to undergraduate students and practitioners Consequently there is considerable interest in developing practical material suitable for students at the lowest introductory level This book is intended to be an elementary introduction to the physics of solitons for students physicists engineers and practitioners We present the modeling of nonlinear phenomena where soliton like waves are involved together with applications to a wide variety of concrete systems and experiments This book is designed as a book of physical ideas and basic methods and not as an up to the minute book concerned with the latest research results The background in physics and the amount of mathematical knowledge assumed of the reader is within that usually accumulated by junior or senior students in physics Algebraic and Geometric Aspects of Integrable Systems and Random Matrices Anton Dzhamay,Ken'ichi Maruno,Virgil U. Pierce,2013-06-26 This volume contains the proceedings of the AMS Special Session on Algebraic and Geometric Aspects of Integrable Systems and Random Matrices held from January 6 7 2012 in Boston MA The very wide range of topics represented in this volume illustrates **Random Matrix Theory, Interacting Particle Systems and Integrable Systems** Percy Deift,Peter Forrester,2014-12-15 This

volume includes review articles and research contributions on long standing questions on universalities of Wigner matrices and beta ensembles   **Orthogonal Polynomials and Random Matrices: A Riemann-Hilbert Approach** Percy Deift,2000 This volume expands on a set of lectures held at the Courant Institute on Riemann Hilbert problems orthogonal polynomials and random matrix theory The goal of the course was to prove universality for a variety of statistical quantities arising in the theory of random matrix models The central question was the following Why do very general ensembles of random n times n matrices exhibit universal behavior as n infinity The main ingredient in the proof is the steepest descent method for oscillatory Riemann Hilbert problems Titles in this series are copublished with the Courant Institute of Mathematical Sciences at New York University   *Applied Mechanics Reviews* ,1993   **Recent Advances in Partial Differential Equations, Venice 1996** Peter D. Lax,L. Nirenberg,Renato Spigler,1998 Lax and Nirenberg are two of the most distinguished mathematicians of our times Their work on partial differential equations PDEs over the last half century has dramatically advanced the subject and has profoundly influenced the course of mathematics A huge part of the development in PDEs during this period has either been through their work motivated by it or achieved by their postdocs and students A large number of mathematicians honored these two exceptional scientists in a week long conference in Venice June 1996 on the occasion of their 70th birthdays This volume contains the proceedings of the conference which focused on the modern theory of nonlinear PDEs and their applications Among the topics treated are turbulence kinetic models of a rarefied gas vortex filaments dispersive waves singular limits and blow up solutions conservation laws Hamiltonian systems and others The conference served as a forum for the dissemination of new scientific ideas and discoveries and enhanced scientific communication by bringing together such a large number of scientists working in related fields THe event allowed the international mathematics community to honor two of its outstanding members   **Discrete Orthogonal Polynomials. (AM-164)** Jinho Baik,2007 Publisher description   **Principles of the Theory of Lattice Dynamics** Harald Böttger,1983-12-31 No detailed description available for Principles of the Theory of Lattice Dynamics   **Acta Numerica 2003: Volume 12** Arieh Iserles,2003-09-15 An annual volume presenting substantive survey articles in numerical mathematics and scientific computing   Solitons and the Inverse Scattering Transform Mark J. Ablowitz,Harvey Segur,2006-05-15 A study by two of the major contributors to the theory of the inverse scattering transform and its application to problems of nonlinear dispersive waves that arise in fluid dynamics plasma physics nonlinear optics particle physics crystal lattice theory nonlinear circuit theory and other areas A soliton is a localised pulse like nonlinear wave that possesses remarkable stability properties Typically problems that admit soliton solutions are in the form of evolution equations that describe how some variable or set of variables evolve in time from a given state The equations may take a variety of forms for example PDEs differential difference equations partial difference equations and integrodifferential equations as well as coupled ODEs of finite order What is surprising is that although these problems are nonlinear the

general solution that evolves from almost arbitrary initial data may be obtained without approximation **Discrete Systems and Integrability** J. Hietarinta,N. Joshi,F. W. Nijhoff,2016-09 A first introduction to the theory of discrete integrable systems at a level suitable for students and non experts *Jacobi Operators and Completely Integrable Nonlinear Lattices* Gerald Teschl,2000 This volume serves as an introduction and reference source on spectral and inverse theory of Jacobi operators and applications of these theories to the Toda and Kac van Moerbeke hierarchy **Soliton Equations and Their Algebro-Geometric Solutions: Volume 2, (1+1)-Dimensional Discrete Models** Fritz Gesztesy,Helge Holden,Johanna Michor,Gerald Teschl,2008-09-04 As a partner to Volume 1 Dimensional Continuous Models this monograph provides a self contained introduction to algebro geometric solutions of completely integrable nonlinear partial differential difference equations also known as soliton equations The systems studied in this volume include the Toda lattice hierarchy the Kac van Moerbeke hierarchy and the Ablowitz Ladik hierarchy An extensive treatment of the class of algebro geometric solutions in the stationary as well as time dependent contexts is provided The theory presented includes trace formulas algebro geometric initial value problems Baker Akhiezer functions and theta function representations of all relevant quantities involved The book uses basic techniques from the theory of difference equations and spectral analysis some elements of algebraic geometry and especially the theory of compact Riemann surfaces The presentation is constructive and rigorous with ample background material provided in various appendices Detailed notes for each chapter together with an exhaustive bibliography enhance understanding of the main results **Analysis, Modeling and Simulation of Multiscale Problems** Alexander Mielke,2006-10-14 This book reports recent mathematical developments in the Programme Analysis Modeling and Simulation of Multiscale Problems which started as a German research initiative in 2006 Multiscale problems occur in many fields of science such as microstructures in materials sharp interface models many particle systems and motions on different spatial and temporal scales in quantum mechanics or in molecular dynamics The book presents current mathematical foundations of modeling and proposes efficient numerical treatment *The Transition to Chaos* Linda Reichl,2013-11-11 Based on courses given at the universities of Texas in Austin and California in San Diego this book deals with the basic mechanisms that determine the dynamic evolution of classical and quantum systems It presents in as simple a manner as possible the basic mechanisms that determine the dynamical evolution of both classical and quantum systems in sufficient generality to include quantum phenomena The book begins with a discussion of Noether s theorem integrability KAM theory and a definition of chaotic behavior it continues with a detailed discussion of area preserving maps integrable quantum systems spectral properties path integrals and periodically driven systems and it concludes by showing how to apply the ideas to stochastic systems The presentation is complete and self contained appendices provide much of the needed mathematical background and there are extensive references to the current literature Problems at the ends of chapters help students clarify their understanding In this new edition the presentation will be brought up to date throughout and a new

chapter on open quantum systems will be added   *Perspectives of Nonlinear Dynamics: Volume 2* E. Atlee Jackson,1989 The dynamics of physical chemical biological or fluid systems generally must be described by nonlinear models whose detailed mathematical solutions are not obtainable To understand some aspects of such dynamics various complementary methods and viewpoints are of crucial importance The presentation and style is intended to stimulate the reader s imagination to apply these methods to a host of problems and situations

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