A 3 × 3 matrix spectral problem for AKNS hierarchy and its binary Nonlinearization

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Abstract

A three-by-three matrix spectral problem for AKNS soliton hierarchy is proposed and the corresponding Bargmann symmetry constraint involved in Lax pairs and adjoint Lax pairs is discussed. The resulting nonlinearized Lax systems possess classical Hamiltonian structures, in which the nonlinearized spatial system is intimately related to stationary AKNS flows. These nonlinearized Lax systems also lead to a sort of involutive solutions to each AKNS soliton equation.

1 Introduction

Symmetry constraints have aroused an increasing interest in recent few years due to the important roles they play in soliton theory. Such a kind of very successful symmetry constraint method is the nonlinearization technique for Lax pairs of soliton hierarchies, including mono–nonlinearization proposed by Cao and Geng [7] [8] and further binary nonlinearization [18] [17] [14].

In general, one considers the complicated nonlinear problems to be solved in such a way to break nonlinear problems into several linear or smaller ones and then to solve these resulting problems. It is following this idea that one has introduced the method of Lax pair to study nonlinear soliton equations. The Lax pairs are always linear with respect to their eigenfunctions. Nevertheless, the nonlinearization technique puts this original object, the Lax pair, into a nonlinear and more complicated object, the nonlinearized Lax system. It seems to be not reasonable enough, but in fact, it provides an effective way, different from the usual one, to solve soliton equations. The main reason why the nonlinearization technique takes effect is that kind of specific symmetry constraints expressed through the variational derivative of the potential.

Neumann Systems For The Algebraic Akns Problem

Jaume Llibre,Ana Nunes

Neumann Systems For The Algebraic Akns Problem:

Neumann Systems for the Algebraic AKNS Problem Randolph James Schilling,1992 This work is concerned with an algebraically completely integrable Hamiltonian system whose solutions may be used to describe the finite gap solutions of the AKNS spectral problem a first order two by two matrix linear system Trace formulas constraints Lax paris and constants of motion are obtained using Krichever s algebraic inverse spectral transform Computations are carried out explicityly over the class of spectral problems with square matrix coefficients **The Problem of Integrable Discretization** Yuri B. Suris,2012-12-06 An exploration of the theory of discrete integrable systems with an emphasis on the following general problem how to discretize one or several of independent variables in a given integrable system of differential equations maintaining the integrability property This question related in spirit to such a modern branch of numerical analysis as geometric integration is treated in the book as an immanent part of the theory of integrable systems also commonly termed as the theory of solitons Most of the results are only available from recent journal publications many of them are new Thus the book is a kind of encyclopedia on discrete integrable systems It unifies the features of a research monograph and a handbook It is supplied with an extensive bibliography and detailed bibliographic remarks at the end of each chapter Largely self contained it will be accessible to graduate and post graduate students as well as to researchers in the area of integrable dynamical systems **Algebraic Integrability of Nonlinear Dynamical Systems on Manifolds** A.K. Prykarpatsky,I.V. Mykytiuk,2013-04-09 In recent times it has been stated that many dynamical systems of classical mathematical physics and mechanics are endowed with symplectic structures given in the majority of cases by Poisson brackets Very often such Poisson structures on corresponding manifolds are canonical which gives rise to the possibility of producing their hidden group theoretical essence for many completely integrable dynamical systems It is a well understood fact that great part of comprehensive integrability theories of nonlinear dynamical systems on manifolds is based on Lie algebraic ideas by means of which in particular the classification of such compatibly bi Hamiltonian and isospectrally Lax type integrable systems has been carried out Many chapters of this book are devoted to their description but to our regret so far the work has not been completed Hereby our main goal in each analysed case consists in separating the basic algebraic essence responsible for the complete integrability and which is at the same time in some sense universal i e characteristic for all of them Integrability analysis in the framework of a gradient holonomic algorithm devised in this book is fulfilled through three stages 1 finding a symplectic structure Poisson bracket transforming an original dynamical system into a Hamiltonian form 2 finding first integrals action variables or conservation laws 3 defining an additional set of variables and some functional operator quantities with completely controlled evolutions for instance as Lax type representation *Filtrations on the Homology of Algebraic Varieties* Eric M. Friedlander,Barry Mazur,1994 This work provides a detailed exposition of a classical topic from a very recent viewpoint Friedlander and Mazur describe some foundational aspects of Lawson homology for complex projective

algebraic varieties a homology theory defined in terms of homotopy groups of spaces of algebraic cycles Attention is paid to methods of group completing abelian topological monoids The authors study properties of Chow varieties especially in connection with algebraic correspondences relating algebraic varieties Operations on Lawson homology are introduced and analysed These operations lead to a filtration on the singular homology of algebraic varieties which is identified in terms of correspondences and related to classical filtrations of Hodge and Grothendieck **Theory and Applications of Holomorphic Functions on Algebraic Varieties over Arbitrary Ground Fields** Oscar Zariski,1951 **Duality for Actions and Coactions of Measured Groupoids on von Neumann Algebras** Takehiko Yamanouchi,1993 Through classification of compact abelian group actions on semifinite injective factors Jones and Takesaki introduced a notion of an action of a measured groupoid on a von Neumann algebra which was proven to be an important tool for such an analysis In this paper elaborating their definition the author introduces a new concept of a measured groupoid action that may fit more perfectly in the groupoid setting The author also considers a notion of a coaction of a measured groupoid by showing the existence of a canonical coproduct on every groupoid von Neumann algebra Associated Graded Algebra of a Gorenstein Artin Algebra Anthony Ayers Iarrobino,1994 In 1904 Macaulay described the Hilbert function of the intersection of two plane curve branches It is the sum of a sequence of functions of simple form This monograph describes the structure of the tangent cone of the intersection underlying this symmetry Iarrobino generalizes Macaulay s result beyond complete intersections in two variables to Gorenstein Artin algebras in an arbitrary number of variables He shows that the tangent cone of a Gorenstein singularity contains a sequence of ideals whose successive quotients are reflexive modules Applications are given to determining the multiplicity and orders of generators of Gorenstein ideals and to problems of deforming singular mapping germs Also included are a survey of results concerning the Hilbert function of Gorenstein Artin algebras and an extensive bibliography **Random Perturbations of Hamiltonian Systems** Mark Iosifovich Freĭdlin,Alexander D. Wentzell,1994 Random perturbations of Hamiltonian systems in Euclidean spaces lead to stochastic processes on graphs and these graphs are defined by the Hamiltonian In the case of white noise type perturbations the limiting process will be a diffusion process on the graph Its characteristics are expressed through the Hamiltonian and the characteristics of the noise Freidlin and Wentzell calculate the process on the graph under certain conditions and develop a technique which allows consideration of a number of asymptotic problems The Dirichlet problem for corresponding elliptic equations with a small parameter are connected with boundary problems on the graph *Enright-Shelton Theory and Vogan's Problem for Generalized Principal Series* Brian D. Boe,David H. Collingwood,1993 This book investigates the composition series of generalized principal series representations induced from a maximal cuspidal parabolic subgroup of a real reductive Lie group Boe and Collingwood study when such representations are multiplicity free Vogan s Problem 3 and the problem of describing their composition factors in closed form The results obtained are strikingly similar to those of Enright and Shelton for highest weight modules

Connections with two different flag variety decompositions are discussed *Loop Groups, Discrete Versions of Some Classical Integrable Systems, and Rank 2 Extensions* Percy Deift,Luen-Chau Li,Carlos Tomei,1992 The authors show how to interpret recent results of Moser and Veselov on discrete versions of a class of classical integrable systems in terms of a loop group framework In this framework the discrete systems appear as time one maps of integrable Hamiltonian flows Earlier results of Moser on isospectral deformations of rank 2 extensions of a fixed matrix can also be incorporated into their scheme

Separatrix Surfaces and Invariant Manifolds of a Class of Integrable Hamiltonian Systems and Their Perturbations Jaume Llibre,Ana Nunes,1994 This work presents a study of the foliations of the energy levels of a class of integrable Hamiltonian systems by the sets of constant energy and angular momentum This includes a classification of the topological bifurcations and a dynamical characterization of the criticalleaves separatrix surfaces of the foliation Llibre and Nunes then consider Hamiltonain perturbations of this class of integrable Hamiltonians and give conditions for the persistence of the separatrix structure of the foliations and for the existence of transversal ejection collision orbits of the perturbed system Finally they consider a class of non Hamiltonian perturbations of a family of integrable systems of the type studied earlier and prove the persistence of almost all the tori and cylinders that foliate the energy levels of the unperturbed system as a consequence of KAM theory Weakly Nonlinear Dirichlet Problems on Long Or Thin Domains Edward Norman Dancer,1993 *The Inverse Problem of the Calculus of Variations for Ordinary Differential Equations* Ian Anderson,Gerard Thompson,1992 This monograph explores various aspects of the inverse problem of the calculus of variations for systems of ordinary differential equations The main problem centres on determining the existence and degree of generality of Lagrangians whose system of Euler Lagrange equations coicides with a given system of ordinary differential equations The authors rederive the basic necessary and sufficient conditions of Douglas for second order equations and extend them to equations of higher order using methods of the variational bicomplex of Tulcyjew Vinogradov and Tsujishita The authors present an algorithm based upon exterior differential systems techniques for solving the inverse problem for second order equations a number of new examples illustrate the effectiveness of this approach **Soliton Equations and their Algebro-Geometric Solutions: Volume 1, (1+1)-Dimensional Continuous Models** Fritz Gesztesy,Helge Holden,2003-06-05 The focus of this book is on algebro geometric solutions of completely integrable nonlinear partial differential equations in 1 1 dimensions also known as soliton equations Explicitly treated integrable models include the KdV AKNS sine Gordon and Camassa Holm hierarchies as well as the classical massive Thirring system An extensive treatment of the class of algebro geometric solutions in the stationary as well as time dependent contexts is provided The formalism presented includes trace formulas Dubrovin type initial value problems Baker Akhiezer functions and theta function representations of all relevant quantities involved The book uses techniques from the theory of differential equations spectral analysis and elements of algebraic geometry most notably the theory of compact Riemann surfaces The presentation is rigorous detailed and self contained with ample

background material provided in various appendices Detailed notes for each chapter together with an exhaustive bibliography enhance the presentation offered in the main text **Degenerate Principal Series for Symplectic Groups** Chris Jantzen,1993 This paper is concerned with induced representations for p adic groups In particular Jantzen examines the question of reducibility in the case where the inducing subgroup is a maximal parabolic subgroup of $Sp_{2n} F$ and the inducing representation is one dimensional Two different approaches to this problem are used The first based on the work of Casselman and of Gustafson reduces the problem to the corresponding question about an associated finite dimensional representation of a certain Hecke algebra The second approach is based on a technique of Tadi c and involves an analysis of Jacquet modules This is used to obtain a more general result on induced representations which may be used to deal with the problem when the inducing representation satisfies a regularity condition The same basic argument is also applied in a case by case fashion to nonregular cases **Continuous Images of Arcs and Inverse Limit Methods** Jacek Nikiel,H. M. Tuncali,E. D. Tymchatyn,1993 Continuous images of ordered continua are investigated The paper gives various properties of their monotone images and inverse limits of their inverse systems or sequences with monotone bonding surjections Some factorization theorems are provided Special attention is given to one dimensional spaces which are continuous images of arcs and among them various classes of rim finite continua The methods of proofs include cyclic element theory T set approximations and null family decompositions The paper brings also new properties of cyclic elements and T sets in locally connected continua in general Extension of Positive-Definite Distributions and Maximum Entropy Jean-Pierre Gabardo,1993 In this work the maximum entropy method is used to solve the extension problem associated with a positive definite function or distribution defined on an interval of the real line Garbardo computes explicitly the entropy maximizers corresponding to various logarithmic integrals depending on a complex parameter and investigates the relation to the problem of uniqueness of the extension These results are based on a generalization in both the discrete and continuous cases of Burg s maximum entropy theorem **On Axiomatic Approaches to Vertex Operator Algebras and Modules** Igor Frenkel,Yi-Zhi Huang,James Lepowsky,1993 The basic definitions and properties of vertex operator algebras modules intertwining operators and related concepts are presented following a fundamental analogy with Lie algebra theory The first steps in the development of the general theory are taken and various natural and useful reformulations of the axioms are given In particular tensor products of algebras and modules adjoint vertex operators and contragradient modules adjoint intertwining operators and fusion rules are studied in greater depth This paper lays the monodromy free axiomatic foundation of the general theory of vertex operator algebras modules and intertwining operators **Markov Cell Structures near a Hyperbolic Set** F. Thomas Farrell,Lowell Jones,1993 The authors argument is a spiritual descendent of earlier work of Adler and Weiss Sina and Bowen and involves a close study of triangulations The discussion is long and technical but the outline of the proof is sketched clearly in Section 1 for the special case of italic F an expanding immersion A

concluding section lists problems on hyperbolic sets Markov partitions and related matters remarks on topological invariants including the conjectured vanishing of Pontryagin classes for manifolds supporting Anosov diffeomorphisms may be of particular interest   **Symplectic Cobordism and the Computation of Stable Stems** Stanley O. Kochman,1993 This memoir consists of two independent papers In the first The symplectic cobordism ring III the classical Adams spectral sequence is used to study the symplectic cobordism ring capital Greek Omega superscript over subscript italic capital S subscript italic p In the second The symplectic Adams Novikov spectral sequence for spheres we analyze the symplectic Adams Novikov spectral sequence converging to the stable homotopy groups of spheres

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