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Giovanni Angelo Cassatella Contra



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Discrete Integrable Systems Basil Grammaticos, Yvette Kosmann-Schwarzbach, Thamizharasi Tamizhmani, 2004-06-22

This volume consists of a set of ten lectures conceived as both introduction and up to date survey on discrete integrable systems It constitutes a companion book to Integrability of Nonlinear Systems Springer Verlag 2004 LNP 638 ISBN 3 540 20630 2 Both volumes address primarily graduate students and nonspecialist researchers but will also benefit lecturers looking for suitable material for advanced courses and researchers interested in specific topics

Discrete Integrable Systems J.J. Duistermaat, 2010-09-16 This book is devoted to Quisped Roberts and Thompson QRT maps considered as automorphisms of rational elliptic surfaces The theory of QRT maps arose from problems in mathematical physics involving difference equations The application of QRT maps to these and other problems in the literature including Poncelet mapping and the elliptic billiard is examined in detail The link between elliptic fibrations and completely integrable Hamiltonian systems is also discussed The book begins with a comprehensive overview of the subject including QRT maps singularity confinement automorphisms of rational elliptic surfaces action on homology classes and periodic QRT maps Later chapters cover these topics and more in detail While QRT maps will be familiar to specialists in algebraic geometry the present volume makes the subject accessible to mathematicians and graduate students in a classroom setting or for self study

Discrete Systems and Integrability J. Hietarinta, N. Joshi, F. W. Nijhoff, 2016-08-19 This first introductory text to discrete integrable systems introduces key notions of integrability from the vantage point of discrete systems also making connections with the continuous theory where relevant While treating the material at an elementary level the book also highlights many recent developments Topics include Darboux and Bäcklund transformations difference equations and special functions multidimensional consistency of integrable lattice equations associated linear problems Lax pairs connections with Padé approximants and convergence algorithms singularities and geometry Hirota's bilinear formalism for lattices intriguing properties of discrete Painlevé equations and the novel theory of Lagrangian multiforms The book builds the material in an organic way emphasizing interconnections between the various approaches while the exposition is mostly done through explicit computations on key examples Written by respected experts in the field the numerous exercises and the thorough list of references will benefit upper level undergraduate and beginning graduate students as well as researchers from other disciplines

Discrete Integrable Geometry and Physics Alexander I. Bobenko, Ruedi Seiler, 1999 Recent interactions between the fields of geometry classical and quantum dynamical systems and visualization of geometric objects such as curves and surfaces have led to the observation that most concepts of surface theory and of the theory of integrable systems have natural discrete analogues These are characterized by the property that the corresponding difference equations are integrable and has led in turn to some important applications in areas of condensed matter physics and quantum field theory

amongst others The book combines the efforts of a distinguished team of authors from various fields in mathematics and physics in an effort to provide an overview of the subject The mathematical concepts of discrete geometry and discrete integrable systems are firstly presented as fundamental and valuable theories in themselves In the following part these concepts are put into the context of classical and quantum dynamics *Discrete Integrable Systems* J.J. Duistermaat, 2010-09-15 This book is devoted to Quisped Roberts and Thompson QRT maps considered as automorphisms of rational elliptic surfaces The theory of QRT maps arose from problems in mathematical physics involving difference equations The application of QRT maps to these and other problems in the literature including Poncelet mapping and the elliptic billiard is examined in detail The link between elliptic fibrations and completely integrable Hamiltonian systems is also discussed The book begins with a comprehensive overview of the subject including QRT maps singularity confinement automorphisms of rational elliptic surfaces action on homology classes and periodic QRT maps Later chapters cover these topics and more in detail While QRT maps will be familiar to specialists in algebraic geometry the present volume makes the subject accessible to mathematicians and graduate students in a classroom setting or for self study *Discrete Integrable Systems and Geometry* Aleksandr I. Bobenko, 1997 *Cluster Algebras and Discrete Integrable Systems* Panupong Vichitkunakorn, 2017 **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 **The Problem of Integrable Discretization** Yuri B. Suris, 2003-06-20 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 **Tropical Geometry and Integrable Systems** Chris Athorne, Diane Maclagan, Ian Strachan, 2012 This volume contains the proceedings of the conference on tropical geometry and integrable systems held July 3 8 2011 at the University of Glasgow United Kingdom One of the aims of this conference was to bring together researchers in the field of tropical geometry and its applications from apparently disparate ends of the spectrum to foster a mutual understanding and establish a common language which will encourage further developments of the area This

aim is reflected in these articles which cover areas from automata through cluster algebras to enumerative geometry In addition two survey articles are included which introduce ideas from researchers on one end of this spectrum to researchers on the other This book is intended for graduate students and researchers interested in tropical geometry and integrable systems and the developing links between these two areas [Discrete Integrable Systems and Discrete Analysis](#), 1997

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 **Discrete Integrable Systems, Matrix Orthogonal Polynomials and**

Riemann-Hilbert Problems Giovanni Angelo Cassatella Contra, 2016 The purpose of this Thesis is to relate the notion of integrability for discrete systems with the theory of matrix orthogonal polynomials by using a Riemann-Hilbert approach The study of integrable models has originated in Classical Mechanics in relation with the problem of solving Newton's equations of motion 2 The work of Liouville, Hamilton, Jacobi and others firmly established integrable systems as prototype models solvable by quadratures i.e. by a direct integration procedure 7 An impressive amount of research has been devoted to the study of the geometry of classical integrable and superintegrable systems 66-82 especially in relation with the problem of separation of variables for the associated Hamilton-Jacobi equation 75 In the second half of twentieth century the discovery of the Inverse Scattering Method for the Korteweg-de Vries equation 42-43 signed the beginning of a new field of research the study of integrable systems with infinitely many degrees of freedom expressed in terms of nonlinear field equations New classes of integrable models often encompassed in hierarchies of nonlinear partial differential equations were introduced In particular equations possessing soliton solutions found interesting applications for instance in classical hydrodynamics and quantum optics **Symmetries and Integrability of Difference Equations** Peter A. Clarkson, Frank W.

Nijhoff, 1999-02-04 This volume comprises state-of-the-art articles in discrete integrable systems **Algebraic and Analytic Aspects of Integrable Systems and Painlevé Equations** Anton Dzhamay, 2015 This volume contains the proceedings of the AMS Special Session on Algebraic and Analytic Aspects of Integrable Systems and Painlevé Equations held on January 18 2014 at the Joint Mathematics Meetings in Baltimore MD The theory of integrable systems has been at the forefront of some of the most important developments in mathematical physics in the last 50 years The techniques to study such systems have solid foundations in algebraic geometry differential geometry and group representation theory Many important special solutions of continuous and discrete integrable systems can be written in terms of special functions such as hypergeometric and basic hypergeometric functions The analytic tools developed to study integrable systems have numerous applications in random matrix theory statistical mechanics and quantum gravity One of the most exciting recent developments has been the emergence of good and interesting discrete and quantum analogues of classical integrable differential equations such as the

Painlevé equations and soliton equations Many algebraic and analytic ideas developed in the continuous case generalize in a beautifully natural manner to discrete integrable systems The editors have sought to bring together a collection of expository and research articles that represent a good cross section of ideas and methods in these active areas of research within integrable systems and their applications

Recent topics on discrete integrable systems Satoshi Tsujimoto,2000

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

Discrete Integrable Systems and Geometric Numerical Integration Shami Ali M. Alsallami,2018

Integrability of Nonlinear Systems Yvette Kosmann-Schwarzbach,Basil Grammaticos,K. M. Tamizhmani,2014-01-15

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Discrete Integrable Systems Introduction

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