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# Discrete Integrable Systems

QRT Maps and Elliptic Surfaces

# Discrete Integrable Systems

**Yuri B. Suris**



## **Discrete Integrable Systems:**

Discrete Integrable Systems Basil Grammaticos, Yvette Kosmann-Schwarzbach, Thamizharasi Tamizhmani, 2014-01-15

*Discrete Integrable Systems* Basil Grammaticos, Yvette Kosmann-Schwarzbach, Thamizharasi Tamizhmani, 2010-12-09

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 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 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 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

**Recent topics on discrete integrable systems** Satoshi Tsujimoto, 2000 *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

**Discrete Integrable Systems and Geometry** Aleksandr I. Bobenko, 1997 **Cluster Algebras and Discrete Integrable Systems** Panupong Vichitkunakorn, 2017 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

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

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

**Discrete Integrable Systems and Discrete Analysis**, 1997 **Development in discrete integrable systems - ultra-discretization, quantization** Saburo Kakei, 2001 *The Anti-self-dual Yang-Mills Equations and Discrete Integrable*

*Systems* Gregorio Benedetto Benincasa, 2018      *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 Differential Geometry** Alexander I. Bobenko, Yuri B. Suris, 2023-09-14 An emerging field of discrete differential geometry aims at the development of discrete equivalents of notions and methods of classical differential geometry The latter appears as a limit of a refinement of the discretization Current interest in discrete differential geometry derives not only from its importance in pure mathematics but also from its applications in computer graphics theoretical physics architecture and numerics Rather unexpectedly the very basic structures of discrete differential geometry turn out to be related to the theory of integrable systems One of the main goals of this book is to reveal this integrable structure of discrete differential geometry For a given smooth geometry one can suggest many different discretizations Which one is the best This book answers this question by providing fundamental discretization principles and applying them to numerous concrete problems It turns out that intelligent theoretical discretizations are distinguished also by their good performance in applications The intended audience of this book is threefold It is a textbook on discrete differential geometry and integrable systems suitable for a one semester graduate course On the other hand it is addressed to specialists in geometry and mathematical physics It reflects the recent progress in discrete differential geometry and contains many original results The third group of readers at which this book is targeted is formed by specialists in geometry processing computer graphics architectural design numerical simulations and animation They may find here answers to the question How do we discretize differential geometry arising in their specific field Prerequisites for reading this book include standard undergraduate background calculus and linear algebra No knowledge of differential geometry is expected although some familiarity with curves and surfaces can be helpful

**Algebraic Aspects of Integrable Systems** A.S. Fokas, I.M. Gelfand, 1996-10-01 A collection of articles in memory of Irene Dorfman and her research in mathematical physics Among the topics covered are the Hamiltonian and bi-Hamiltonian nature of continuous and discrete integrable equations the  $t$  function construction the  $r$  matrix formulation of integrable systems pseudo differential operators and modular forms master symmetries and the Bocher theorem asymptotic integrability the integrability of the equations of associativity invariance under Laplace Darboux transformations trace formulae of the Dirac and Schrodinger periodic

operators and certain canonical 1 forms      *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. 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. An impressive amount of research has been devoted to the study of the geometry of classical integrable and superintegrable systems, especially in relation with the problem of separation of variables for the associated Hamilton-Jacobi equation. In the second half of the twentieth century the discovery of the Inverse Scattering Method for the Korteweg-de Vries equation 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.

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