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# Discrete Integrable Systems

QRT Maps and Elliptic Surfaces

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# Discrete Integrable Systems Qrt Maps And Elliptic Surfaces Springer Monographs In Mathematics

**Anton Dzhamay, Ken'ichi Maruno, Virgil  
U. Pierce**



## **Discrete Integrable Systems Qrt Maps And Elliptic Surfaces Springer Monographs In Mathematics:**

**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 [Integrable Systems and Algebraic Geometry: Volume 1](#) Ron Donagi, Tony Shaska, 2020-04-02

Created as a celebration of mathematical pioneer Emma Previato this comprehensive book highlights the connections between algebraic geometry and integrable systems differential equations mathematical physics and many other areas The authors many of whom have been at the forefront of research into these topics for the last decades have all been influenced by Previato s research as her collaborators students or colleagues The diverse articles in the book demonstrate the wide scope of Previato s work and the inclusion of several survey and introductory articles makes the text accessible to graduate students and non experts as well as researchers This first volume covers a wide range of areas related to integrable systems often emphasizing the deep connections with algebraic geometry Common themes include theta functions and Abelian varieties Lax equations integrable hierarchies Hamiltonian flows and difference operators These powerful tools are applied to spinning top Hitchin Painleve and many other notable special equations [Integrable Systems and Algebraic Geometry](#) Ron Donagi, Tony Shaska, 2020-04-02 A collection of articles discussing integrable systems and algebraic geometry from leading researchers in the field **Continuous Symmetries and Integrability of Discrete Equations** Decio Levi, Pavel

Winternitz, Ravil I. Yamilov, 2023-01-23 This book on integrable systems and symmetries presents new results on applications of symmetries and integrability techniques to the case of equations defined on the lattice This relatively new field has many applications for example in describing the evolution of crystals and molecular systems defined on lattices and in finding numerical approximations for differential equations preserving their symmetries The book contains three chapters and five appendices The first chapter is an introduction to the general ideas about symmetries lattices differential difference and partial difference equations and Lie point symmetries defined on them Chapter 2 deals with integrable and linearizable systems in two dimensions The authors start from the prototype of integrable and linearizable partial differential equations the Korteweg de Vries and the Burgers equations Then they consider the best known integrable differential difference and partial difference equations Chapter 3 considers generalized symmetries and conserved densities as integrability criteria The

appendices provide details which may help the readers understanding of the subjects presented in Chapters 2 and 3 This book is written for PhD students and early researchers both in theoretical physics and in applied mathematics who are interested in the study of symmetries and integrability of difference equations      **Algebraic and Analytic Aspects of Integrable Systems and Painleve Equations** Anton Dzhamay, Kenichi Maruno, Christopher M. Ormerod, 2015-10-28 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      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      Quantum Theory and Symmetries M. B. Paranjape, Richard MacKenzie, Zora Thomova, Pavel Winternitz, William Witczak-Krempa, 2021-03-26 This volume of the CRM Conference Series is based on a carefully refereed selection of contributions presented at the 11th International Symposium on Quantum Theory and Symmetries held in Montréal Canada from July 1 5 2019 The main objective of the meeting was to share and make accessible new research and recent results in several branches of Theoretical and Mathematical Physics including Algebraic Methods Condensed Matter Physics Cosmology and Gravitation Integrability Non perturbative Quantum Field Theory Particle Physics Quantum Computing and Quantum Information Theory and String ADS CFT There was also a special session in honour of Decio Levi The volume is divided into sections corresponding to the sessions held during the symposium allowing the reader to appreciate both the homogeneity and the diversity of mathematical tools that have been applied in these subject areas Several of the plenary speakers who are internationally recognized experts in their fields have contributed reviews of the main topics to complement the original contributions      **Algebra for Secure and Reliable Communication Modeling** Mustapha

Lahyane, Edgar Martínez-Moro, 2015-06-23 This volume contains the proceedings of the CIMPA Research School and Conference on Algebra for Secure and Reliable Communication Modeling held from October 1-13, 2012 in Morelia State of Michoacán, Mexico. The papers cover several aspects of the theory of coding theory and are gathered into three categories: general theory of linear codes, algebraic geometry and coding theory, and constacyclic codes over rings. The aim of this volume is to fill the gap between the theoretical part of algebraic geometry and the applications to problem solving and computational modeling in engineering, signal processing, and information theory. This book is published in cooperation with Real Sociedad Matemática Española RSME. **Cox Rings** Ivan Arzhantsev, 2015 This book provides a largely self-contained introduction to Cox rings and their applications in algebraic and arithmetic geometry. *Springer Monographs in Mathematics*, **Integrable Systems in the Realm of Algebraic Geometry** Pol Vanhaecke, 2003-07-01 This book treats the general theory of Poisson structures and integrable systems on affine varieties in a systematic way. Special attention is drawn to algebraic completely integrable systems. Several integrable systems are constructed and studied in detail, and a few applications of integrable systems to algebraic geometry are worked out. In the second edition, some of the concepts in Poisson geometry are clarified by introducing Poisson cohomology; the Mumford systems are constructed from the algebra of pseudo-differential operators, which clarifies their origin; a new explanation of the multi-Hamiltonian structure of the Mumford systems is given by using the loop algebra of  $sl(2)$ ; and finally, Goodesic flow on  $SO(4)$  is added to illustrate the linearization algorithm and to give another application of integrable systems to algebraic geometry. 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. *A Journey Through Discrete Mathematics* Martin Loeb, Jaroslav Nešetřil, Robin Thomas, 2017-10-11 This collection of high-quality articles in the field of combinatorics, geometry, algebraic topology, and theoretical computer science is a tribute to Jiří Matoušek, who passed away prematurely in March 2015. It is a collaborative effort by his colleagues and friends who have paid particular attention to clarity of exposition, something Jirka would have approved of. The original

research articles surveys and expository articles written by leading experts in their respective fields map Ji Matou ek s numerous areas of mathematical interest      **Algebraic Aspects of Integrable Systems** A.S. Fokas,I.M.

Gelfand,2012-12-06 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      Algebraic Surfaces Oscar Zariski,1971 From the reviews The author s book saw its first edition in 1935 Now as before the original text of the book is an excellent source for an interested reader to study the methods of classical algebraic geometry and to find the great old results a timelessly beautiful pearl in the cultural heritage of mathematics as a whole

Zentralblatt MATH      *Algebraic Integrability, Painlevé Geometry and Lie Algebras* Mark Adler,Pierre van Moerbeke,Pol Vanhaecke,2004-09-01 This Ergebnisse volume is aimed at a wide readership of mathematicians and physicists graduate students and professionals The main thrust of the book is to show how algebraic geometry Lie theory and Painlevé analysis can be used to explicitly solve integrable differential equations and construct the algebraic tori on which they linearize at the same time it is for the student a playing ground to applying algebraic geometry and Lie theory The book is meant to be reasonably self contained and presents numerous examples The latter appear throughout the text to illustrate the ideas and make up the core of the last part of the book The first part of the book contains the basic tools from Lie groups algebraic and differential geometry to understand the main topic      **Elliptic Curves and Arithmetic Invariants** Haruzo Hida,2013-06-09

This book contains a detailed account of the result of the author s recent Annals paper and JAMS paper on arithmetic invariant including invariant L invariant and similar topics This book can be regarded as an introductory text to the author s previous book p Adic Automorphic Forms on Shimura Varieties Written as a down to earth introduction to Shimura varieties this text includes many examples and applications of the theory that provide motivation for the reader Since it is limited to modular curves and the corresponding Shimura varieties this book is not only a great resource for experts in the field but it is also accessible to advanced graduate students studying number theory Key topics include non triviality of arithmetic invariants and special values of L functions elliptic curves over complex and p adic fields Hecke algebras scheme theory elliptic and modular curves over rings and Shimura curves      *Discrete Mathematics and Applications* Andrei M.

Raigorodskii,Michael Th. Rassias,2020-11-21 Advances in discrete mathematics are presented in this book with applications in theoretical mathematics and interdisciplinary research Each chapter presents new methods and techniques by leading experts Unifying interdisciplinary applications problems and approaches of discrete mathematics this book connects topics in graph theory combinatorics number theory cryptography dynamical systems finance optimization and game theory Graduate

students and researchers in optimization mathematics computer science economics and physics will find the wide range of interdisciplinary topics methods and applications covered in this book engaging and useful     Algebraic Structures In Integrability: Foreword By Victor Kac Vladimir V Sokolov,2020-06-05 Relationships of the theory of integrable systems with various branches of mathematics are extremely deep and diverse On the other hand the most fundamental exactly integrable systems often have applications in theoretical physics Therefore many mathematicians and physicists are interested in integrable models The book is intelligible to graduate and PhD students and can serve as an introduction to separate sections of the theory of classical integrable systems for scientists with algebraic inclinations For the young the book can serve as a starting point in the study of various aspects of integrability while professional algebraists will be able to use some examples of algebraic structures which appear in the theory of integrable systems for wide ranging generalizations The statements are formulated in the simplest possible form However some ways of generalization are indicated In the proofs only essential points are mentioned while for technical details references are provided The focus is on carefully selected examples In addition the book proposes many unsolved problems of various levels of complexity A deeper understanding of every chapter of the book may require the study of more rigorous and specialized literature     Algebraic Surfaces O. Zariski,1935-01-01

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