Progress in Mathematics

Klaus Schmidt

Dynamical Systems of Algebraic Origin

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Dynamical Systems Of Algebraic Origin Dynamical Systems Of Algebraic Origin

Xiaolong Qi

Dynamical Systems Of Algebraic Origin Dynamical Systems Of Algebraic Origin:

Dynamical Systems of Algebraic Origin Klaus Schmidt,2012-01-03 Although much of classical ergodic theory is concerned with single transformations and one parameter flows the subject inherits from statistical mechanics not only its name but also an obligation to analyze spatially extended systems with multidimensional symmetry groups However the wealth of concrete and natural examples which has contributed so much to the appeal and development of classical dynamics is noticeably absent in this more general theory The purpose of this book is to help remedy this scarcity of explicit examples by introducing a class of continuous Zd actions diverse enough to exhibit many of the new phenomena encountered in the transition from Z to Zd but which nevertheless lends itself to systematic study the Zd actions by automorphisms of compact abelian groups One aspect of these actions not surprising in itself but quite striking in its extent and depth nonetheless is the connection with commutative algebra and arithmetical algebraic geometry The algebraic framework resulting from this connection allows the construction of examples with a variety of specified dynamical properties and by combining algebraic and dynamical tools one obtains a quite detailed understanding of this class of Zd actions **Applied Algebra, Algebraic Algorithms and Error-Correcting Codes** Marc Fossorier,Tom Hoeholdt,Alain Poli,2003-08-03 This book constitutes the refereed proceedings of the 15th International Symposium on Applied Algebra Algebraic Algorithms and Error Correcting Codes AAECC 15 held in Toulouse France in May 2003 The 25 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 40 submissions Among the subjects addressed are block codes algebra and codes rings fields and AG codes cryptography sequences decoding algorithms and algebra constructions in algebra Galois groups differential algebra and polynomials Ergodic Theory I. P. Cornfeld,S. V. Fomin,Y. G. Sinai,2012-12-06 Ergodic theory is one of the few branches of mathematics which has changed radically during the last two decades Before this period with a small number of exceptions ergodic theory dealt primarily with averaging problems and general qualitative questions while now it is a powerful amalgam of methods used for the analysis of statistical properties of dyna mical systems For this reason the problems of ergodic theory now interest not only the mathematician but also the research worker in physics biology chemistry etc The outline of this book became clear to us nearly ten years ago but for various reasons its writing demanded a long period of time The main principle which we adhered to from the beginning was to develop the approaches and methods or ergodic theory in the study of numerous concrete examples Because of this Part I of the book contains the description of various classes of dynamical systems and their elementary analysis on the basis of the fundamental notions of ergodicity mixing and spectra of dynamical systems Here as in many other cases the adjective elementary i not synonymous with simple Part II is devoted to abstract ergodic theory It includes the construc tion of direct and skew products of dynamical systems the Rohlin Halmos lemma and the theory of special representations of dynamical systems with continuous time A considerable part deals with entropy **Finite Fields and Their Applications** Pascale Charpin,Alexander Pott,Arne

Winterhof,2013-05-28 This book is based on the invited talks of the RICAM Workshop on Finite Fields and Their Applications Character Sums and Polynomials held at the Federal Institute for Adult Education BIfEB in Strobl Austria from September 2 7 2012 Finite fields play important roles in many application areas such as coding theory cryptography Monte Carlo and quasi Monte Carlo methods pseudorandom number generation quantum computing and wireless communication In this book we will focus on sequences character sums and polynomials over finite fields in view of the above mentioned application areas Chapters 1 and 2 deal with sequences mainly constructed via characters and analyzed using bounds on character sums Chapters 3 5 and 6 deal with polynomials over finite fields Chapters 4 and 9 consider problems related to coding theory studied via finite geometry and additive combinatorics respectively Chapter 7 deals with quasirandom points in view of applications to numerical integration using quasi Monte Carlo methods and simulation Chapter 8 studies aspects of iterations of rational functions from which pseudorandom numbers for Monte Carlo methods can be derived The goal of this book is giving an overview of several recent research directions as well as stimulating research in sequences and polynomials under the unified framework of character theory *The Ultimate Challenge* Jeffrey C. Lagarias,2023-04-19 The 3x 1 problem or Collatz problem concerns the following seemingly innocent arithmetic procedure applied to integers If an integer x is odd then multiply by three and add one while if it is even then divide by two The 3x 1 problem asks whether starting from any positive integer repeating this procedure over and over will eventually reach the number 1 Despite its simple appearance this problem is unsolved Generalizations of the problem are known to be undecidable and the problem itself is believed to be extraordinarily difficult This book reports on what is known on this problem It consists of a collection of papers which can be read independently of each other The book begins with two introductory papers one giving an overview and current status and the second giving history and basic results on the problem These are followed by three survey papers on the problem relating it to number theory and dynamical systems to Markov chains and ergodic theory and to logic and the theory of computation The next paper presents results on probabilistic models for behavior of the iteration This is followed by a paper giving the latest computational results on the problem which verify its truth for x 5 4 cdot 10 18 The book also reprints six early papers on the problem and related questions by L Collatz J H Conway H S M Coxeter C J Everett and R K Guy each with editorial commentary The book concludes with an annotated bibliography of work on the problem up to the year 2000

Dynamics and Numbers Sergiĭ Kolyada:,Martin Möller,Pieter Moree,Thomas Ward,2016-07-27 This volume contains a collection of survey and research articles from the special program and international conference on Dynamics and Numbers held at the Max Planck Institute for Mathematics in Bonn Germany in 2014 The papers reflect the great diversity and depth of the interaction between number theory and dynamical systems and geometry in particular Topics covered in this volume include symbolic dynamics Bratelli diagrams geometry of laminations entropy Nielsen theory recurrence topology of the moduli space of interval maps and specification properties *Fifteen Papers on Topology and Logic* L. M.

Abramov,1964-12-31 **Israel Journal of Mathematics** Mo'atsah ha-le'umit le-meḥḳar ule-fituaḥ (Israel),2005 Bulletin (new Series) of the American Mathematical Society ,2006 **Annales de l'Institut Fourier** ,2006 *Mathematical Reviews* ,2006 **Journal of analysis and its applications** ,1982 *Topological and Symbolic Dynamics* Petr Kůrka,2003 A dynamical system is a continuous self map of a compact metric space Topological dynamics studies the iterations of such a map or equivalently the trajectories of points of the state space The basic concepts of topological dynamics are minimality transitivity recurrence shadowing property stability equicontinuity sensitivity attractors and topological entropy Symbolic dynamics studies dynamical systems whose state spaces are zero dimensional and consist of sequences of symbols The main classes of symbolic dynamical systems are adding machines subshifts of finite type sofic subshifts Sturmian substitutive and Toeplitz subshifts and cellular automata **Journal of the Ramanujan Mathematical Society** ,2003 *Fundamenta Mathematicae* ,2010 **Pacific Journal of Mathematics** ,2001-10 **Proceedings of the International Colloquium on Lie Groups and Ergodic Theory, Mumbai, 1996** S. G. Dani,1998 This volume presents the proceedings from an international colloquium on Lie groups and ergodic theory held at the Tata Institute of Fundamental Research TIFR in Mumbai India Designated a Golden Jubilee event at the Institute this was one of the quadrennial colloquia of the School of Mathematics There were 24 talks given by participants in Lie groups ergodic theory and related fields Leading mathematicians from around the world attended Recent developments were presented and a session was devoted to discussion and problems for future research **Algorithmic Number Theory** ,2002 **European Congress of Mathematics** Antal Balog,1998 **Publicationes mathematicae** Kossuth Lajos Tudományegyetem. Matematikai Intézet,1996

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