Dynamical, Spectral, and Arithmetic Zeta Functions

Michel L. Lapidus
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Editors

Dynamical Spectral And Arithmetic Zeta Functions

Michel Laurent Lapidus,Machiel Van Frankenhuysen

Dynamical Spectral And Arithmetic Zeta Functions:

Dynamical, Spectral, and Arithmetic Zeta Functions Michel Laurent Lapidus,Machiel Van Frankenhuysen,2001 The original zeta function was studied by Riemann as part of his investigation of the distribution of prime numbers Other sorts of zeta functions were defined for number theoretic purposes such as the study of primes in arithmetic progressions This led to the development of L functions which now have several guises It eventually became clear that the basic construction used for number theoretic zeta functions can also be used in other settings such as dynamics geometry and spectral theory with remarkable results This volume grew out of the special session on dynamical spectral and arithmetic zeta functions held at the annual meeting of the American Mathematical Society in San Antonio but also includes four articles that were invited to be part of the collection The purpose of the meeting was to bring together leading researchers to find links and analogies between their fields and to explore new methods The papers discuss dynamical systems spectral geometry on hyperbolic manifolds trace formulas in geometry and in arithmetic as well as computational work on the Riemann zeta function Each article employs techniques of zeta functions The book unifies the application of these techniques in spectral geometry fractal geometry and number theory It is a comprehensive volume offering up to date research It should be useful to both graduate students and confirmed researchers *Arithmetic Groups and Their Generalizations* Lizhen Ji,2008 In one guise or another many mathematicians are familiar with certain arithmetic groups such as mathbf Z or textrm SL n mathbf Z Yet many applications of arithmetic groups and many connections to other subjects within mathematics are less well known Indeed arithmetic groups admit many natural and important generalizations The purpose of this expository book is to explain through some brief and informal comments and extensive references what arithmetic groups and their generalizations are why they are important to study and how they can be understood and applied to many fields such as analysis geometry topology number theory representation theory and algebraic geometry It is hoped that such an overview will shed a light on the important role played by arithmetic groups in modern mathematics Titles in this series are co published with International Press Cambridge MA Table of Contents Introduction General comments on references Examples of basic arithmetic groups General arithmetic subgroups and locally symmetric spaces Discrete subgroups of Lie groups and arithmeticity of lattices in Lie groups Different completions of mathbb Q and S arithmetic groups over number fields Global fields and S arithmetic groups over function fields Finiteness properties of arithmetic and S arithmetic groups Symmetric spaces Bruhat Tits buildings and their arithmetic quotients Compactifications of locally symmetric spaces Rigidity of locally symmetric spaces Automorphic forms and automorphic representations for general arithmetic groups Cohomology of arithmetic groups K groups of rings of integers and K groups of group rings Locally homogeneous manifolds and period domains Non cofinite discrete groups geometrically finite groups Large scale geometry of discrete groups Tree lattices Hyperbolic groups Mapping class groups and outer automorphism groups of free groups Outer automorphism group of free

groups and the outer spaces References Index Review from Mathematical Reviews the author deserves credit for having done the tremendous job of encompassing every aspect of arithmetic groups visible in today s mathematics in a systematic manner the book should be an important guide for some time to come AMSIP 43 Surveys in Noncommutative Geometry Nigel Higson,John Roe,2006 In June 2000 the Clay Mathematics Institute organized an Instructional Symposium on Noncommutative Geometry in conjunction with the AMS IMS SIAM Joint Summer Research Conference These events were held at Mount Holyoke College in Massachusetts from June 18 to 29 2000 The Instructional Symposium consisted of several series of expository lectures which were intended to introduce key topics in noncommutative geometry to mathematicians unfamiliar with the subject Those expository lectures have been edited and are reproduced in this volume The lectures of Rosenberg and Weinberger discuss various applications of noncommutative geometry to problems in ordinary geometry and topology The lectures of Lagarias and Tretkoff discuss the Riemann hypothesis and the possible application of the methods of noncommutative geometry in number theory Higson gives an account of the residue index theorem of Connes and Moscovici Noncommutative geometry is to an unusual extent the creation of a single mathematician Alain Connes The present volume gives an extended introduction to several aspects of Connes work in this fascinating area *Mathematical Constants* Steven R. Finch,2003-08-18 Steven Finch provides 136 essays each devoted to a mathematical constant or a class of constants from the well known to the highly exotic This book is helpful both to readers seeking information about a specific constant and to readers who desire a panoramic view of all constants coming from a particular field for example combinatorial enumeration or geometric optimization Unsolved problems appear virtually everywhere as well This work represents an outstanding scholarly attempt to bring together all significant mathematical constants in one place *Horizons of Fractal Geometry and Complex Dimensions* Robert G. Niemeyer,Erin P. J. Pearse,John A. Rock,Tony Samuel,2019-06-26 This volume contains the proceedings of the 2016 Summer School on Fractal Geometry and Complex Dimensions in celebration of Michel L Lapidus s 60th birthday held from June 21 29 2016 at California Polytechnic State University San Luis Obispo California The theme of the contributions is fractals and dynamics and content is split into four parts centered around the following themes Dimension gaps and the mass transfer principle fractal strings and complex dimensions Laplacians on fractal domains and SDEs with fractal noise and aperiodic order Delone sets and tilings **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 *Value-Distribution of L-Functions* J̲r̲n Steuding,2007-06-06 These notes present recent results in the value

distribution theory of L functions with emphasis on the phenomenon of universality Universality has a strong impact on the zero distribution Riemann s hypothesis is true only if the Riemann zeta function can approximate itself uniformly The text proves universality for polynomial Euler products The authors approach follows mainly Bagchi s probabilistic method Discussion touches on related topics almost periodicity density estimates Nevanlinna theory and functional independence

Open Problems in Mathematics John Forbes Nash, Jr.,Michael Th. Rassias,2016-07-05 The goal in putting together this unique compilation was to present the current status of the solutions to some of the most essential open problems in pure and applied mathematics Emphasis is also given to problems in interdisciplinary research for which mathematics plays a key role This volume comprises highly selected contributions by some of the most eminent mathematicians in the international mathematical community on longstanding problems in very active domains of mathematical research A joint preface by the two volume editors is followed by a personal farewell to John F Nash Jr written by Michael Th Rassias An introduction by Mikhail Gromov highlights some of Nash s legendary mathematical achievements The treatment in this book includes open problems in the following fields algebraic geometry number theory analysis discrete mathematics PDEs differential geometry topology K theory game theory fluid mechanics dynamical systems and ergodic theory cryptography theoretical computer science and more Extensive discussions surrounding the progress made for each problem are designed to reach a wide community of readers from graduate students and established research mathematicians to physicists computer scientists economists and research scientists who are looking to develop essential and modern new methods and theories to solve a variety of open problems **Fractal Geometry, Complex Dimensions and Zeta Functions** Michel Lapidus,Machiel van Frankenhuijsen,2012-09-20 Number theory spectral geometry and fractal geometry are interlinked in this in depth study of the vibrations of fractal strings that is one dimensional drums with fractal boundary Throughout Geometry Complex Dimensions and Zeta Functions Second Edition new results are examined and a new definition of fractality as the presence of nonreal complex dimensions with positive real parts is presented The new final chapter discusses several new topics and results obtained since the publication of the first edition **In Search of the Riemann Zeros** Michel Laurent Lapidus,2008 Formulated in 1859 the Riemann Hypothesis is the most celebrated and multifaceted open problem in mathematics In essence it states that the primes are distributed as harmoniously as possible or equivalently that the Riemann zeros are located on a single vertical line called the critical line **Encyclopaedia of Mathematics, Supplement III** Michiel Hazewinkel,2007-11-23 This is the third supplementary volume to Kluwer s highly acclaimed twelve volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing twelve volumes and together these thirteen volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available

Dynamical Zeta Functions for Piecewise Monotone Maps of the Interval David Ruelle,1994 With a general introduction to the subject this title presents a detailed study of the zeta functions associated with piecewise monotone maps of the interval 0 1 In particular it gives a proof of a generalized form of the Baladi Keller theorem relating the poles of zeta z and the eigenvalues of the transfer operator *Computational Methods and Function Theory* ,2008 *Mathematical Reviews* ,2007

Harmonic Analysis and Rational Approximation Jean-Daniel Fournier,2006-02-21 This book an outgrowth of a topical summer school sets out to introduce non specialists from physics and engineering to the basic mathematical concepts of approximation and Fourier theory After a general introduction Part II of this volume contains basic material on the complex and harmonic analysis underlying the further developments presented Part III deals with the essentials of approximation theory while Part IV completes the foundations by a tour of probability theory Part V reviews some major applications in signal and control theory In Part VI mathematical aspects of dynamical systems theory are discussed Part VII finally is devoted to a modern approach to two physics problems turbulence and the control and noise analysis in gravitational waves measurements **Acta Arithmetica** ,2011 **Non-Vanishing of the Symmetric Square L-Function** Rizwanur R. Khan,2007 **Journal of the Physical Society of Japan** Nihon Butsuri Gakkai,2011 American journal of mathematics ,2006 **Rendiconti di matematica e delle sue applicazioni** ,2008

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