

MATHEMATICAL Surveys and Monographs

Volume 37

Structural Properties of Polylogarithms

Leonard Lewin
Editor



American Mathematical Society

Structural Properties Of Polylogarithms

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Structural Properties Of Polylogarithms:

Structural Properties of Polylogarithms Leonard Lewin,1991 About ten years ago the handful of peculiar numerical diogarithmic identities known since the time of Euler and Landen gave rise to new discoveries concerning cyclotomic equations and related polylogarithmic ladders These discoveries were made mostly by the methods of classical analysis with help from machine computation About the same time starting with Bloch s studies on the application of the dilogarithm in algebraic K theory and algebraic geometry many important discoveries were made in diverse areas This book seeks to provide a synthesis of these two streams of thought In addition to an account of ladders and their association with functional equations the chapters include applications to volume calculations in Lobatchevsky geometry relations to partition theory connections with Clausen s function new functional equations and applications to K theory and other branches of abstract algebra This rapidly expanding field is brought up to date with two appendices and the book concludes with an extensive bibliography of recent publications About two thirds of the material is accessible to mathematicians and scientists in many areas while the remainder requires more specialized background in abstract algebra

Structural Properties of Polylogarithms Leonard Lewin,2014-06-06 About ten years ago the handful of peculiar numerical diogarithmic identities known since the time of Euler and Landen gave rise to new discoveries concerning cyclotomic equations and related polylogarithmic ladders These discoveries were made mostly by the methods of classical analysis with help from machine computation About the same time starting with Bloch s studies on the application of the dilogarithm in algebraic K theory and algebraic geometry many important discoveries were made in diverse areas This book seeks to provide a synthesis of these two streams of thought In addition to an account of ladders and their association with functional equations the chapters include applications to volume calculations in Lobatchevsky geometry relations to partition theory connections with Clausen s function new functional equations and applications to K theory and other branches of abstract algebra This rapidly expanding field is brought up to date with two appendices and the book concludes with an extensive bibliography of recent publications

Mathematical Surveys and Monographs ,1991 *Multiple Zeta Functions, Multiple Polylogarithms And Their Special Values* Jianqiang Zhao,2016-03-07 This is the first introductory book on multiple zeta functions and multiple polylogarithms which are the generalizations of the Riemann zeta function and the classical polylogarithms respectively to the multiple variable setting It contains all the basic concepts and the important properties of these functions and their special values This book is aimed at graduate students mathematicians and physicists who are interested in this current active area of research The book will provide a detailed and comprehensive introduction to these objects their fascinating properties and interesting relations to other mathematical subjects and various generalizations such as their q analogs and their finite versions by taking partial sums modulo suitable prime powers Historical notes and exercises are provided at the end of each chapter

Non-abelian Fundamental Groups and Iwasawa Theory John Coates,Minhyong Kim,Florian

Pop, Mohamed Saïdi, Peter Schneider, 2011-12-15 Number theory currently has at least three different perspectives on non abelian phenomena the Langlands programme non commutative Iwasawa theory and anabelian geometry In the second half of 2009 experts from each of these three areas gathered at the Isaac Newton Institute in Cambridge to explain the latest advances in their research and to investigate possible avenues of future investigation and collaboration For those in attendance the overwhelming impression was that number theory is going through a tumultuous period of theory building and experimentation analogous to the late 19th century when many different special reciprocity laws of abelian class field theory were formulated before knowledge of the Artin Takagi theory Non abelian Fundamental Groups and Iwasawa Theory presents the state of the art in theorems conjectures and speculations that point the way towards a new synthesis an as yet undiscovered unified theory of non abelian arithmetic geometry *Classical Hypergeometric Functions and Generalizations*

Howard S. Cohl, Roberto S. Costas-Santos, Robert S. Maier, 2025-04-23 This is the first volume of a two volume collection of recent research results related to hypergeometric functions The second volume Contemporary Mathematics Volume 819 is titled Applications and q Extensions of Hypergeometric Functions This volume contains the proceedings of a minisymposium and two AMS special sessions in three conferences Minisymposium on All Things Hypergeometric q series and Generalizations at the 16th International Symposium on Orthogonal Polynomials Special Functions and Applications OPSFA 16 June 13 17 2022 Centre de Recherches Mathématiques Montréal Québec Canada AMS Special Session on Hypergeometric Functions and q series at the 2022 AMS Fall Western Sectional Meeting October 22 23 2022 University of Utah Salt Lake City Utah and the AMS Special Session on Hypergeometric Functions q series and Generalizations at the 2023 AMS Spring Eastern Virtual Sectional Meeting April 1 2 2023 This book provides a sampling of current mathematical research related to the Gauss hypergeometric function and as well its immediate generalizations and extensions This includes the generalized hypergeometric functions that originated with Kummer as well as such classical special functions as Lam and Heun functions It also includes certain functions relevant to algebraic geometry such as hypergeometric functions over finite fields All research articles come with extensive bibliographies and can serve as entry points to the current literature *Algebraic*

K -Theory Grzegorz Banaszak, 1996 This book contains proceedings of the research conference on algebraic K theory which took place in Poznań Poland in September 1995 The conference concluded the activity of the algebraic K theory seminar held at the Adam Mickiewicz University in the academic year 1994 1995 Talks at the conference covered a wide range of current research activities in algebraic K theory In particular the following topics were covered K theory of fields and rings of integers K theory of elliptic and modular curves Theory of motives motivic cohomology Beilinson conjectures algebraic K theory of topological spaces topological Hochschild homology and cyclic homology With contributions by leading experts in the field this book provides a look at the state of current research in algebraic K theory **The Arithmetic of**

Fundamental Groups Jakob Stix, 2012-01-10 In the more than 100 years since the fundamental group was first introduced

by Henri Poincaré it has evolved to play an important role in different areas of mathematics. Originally conceived as part of algebraic topology, this essential concept and its analogies have found numerous applications in mathematics that are still being investigated today and which are explored in this volume, the result of a meeting at Heidelberg University that brought together mathematicians who use or study fundamental groups in their work with an eye towards applications in arithmetic. The book acknowledges the varied incarnations of the fundamental group: pro-finite, l -adic, p -adic, pro-algebraic, and motivic. It explores a wealth of topics that range from anabelian geometry in particular, the section conjecture, the l -adic polylogarithm, gonality questions of modular curves, vector bundles in connection with monodromy and relative pro-algebraic completions to a motivic version of Minhyong Kim's non-abelian Chabauty method and p -adic integration after Coleman. The editor has also included the abstracts of all the talks given at the Heidelberg meeting as well as the notes on Coleman integration and on Grothendieck's fundamental group with a view towards anabelian geometry taken from a series of introductory lectures given by Amnon Besser and Tamás Szamuely respectively.

CRC Concise Encyclopedia of Mathematics Eric W. Weisstein, 2002-12-12. Upon publication, the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope, readability, and utility. It soon took its place among the top-selling books in the history of Chapman Hall/CRC, and its popularity continues unabated. Yet also unabated has been the demand for a new edition.

Motives Uwe Jannsen, Jean-pierre Serre, Steven Kleiman, 1994-02-28. Motives were introduced in the mid-1960s by Grothendieck to explain the analogies among the various cohomology theories for algebraic varieties, to play the role of the missing rational cohomology, and to provide a blueprint for proving Weil's conjectures about the zeta function of a variety over a finite field. Over the last ten years or so, researchers in various areas—Hodge theory, algebraic K-theory, polylogarithms, automorphic forms, L-functions, l -adic representations, trigonometric sums, and algebraic cycles—have discovered that an enlarged and in part conjectural theory of mixed motives indicates and explains phenomena appearing in each area. Thus, the theory holds the potential of enriching and unifying these areas. These two volumes contain the revised texts of nearly all the lectures presented at the AMS/IMS/SIAM Joint Summer Research Conference on Motives held in Seattle in 1991. A number of related works are also included, making for a total of forty-seven papers, from general introductions to specialized surveys to research papers.

Frontiers in Number Theory, Physics, and Geometry II Pierre E. Cartier, Bernard Julia, Pierre Moussa, Pierre Vanhove, 2007-07-18. Ten years after a 1989 meeting of number theorists and physicists at the Centre de Physique des Hautes-Alpes, a second event focused on the broader interface of number theory, geometry, and physics. This book is the first of two volumes resulting from that meeting. Broken into three parts, it covers Conformal Field Theories, Discrete Groups, and Renormalization, offering extended versions of the lecture courses and shorter texts on special topics.

Motives, 1994-02-28. Motives were introduced in the mid-1960s by Grothendieck to explain the analogies among the various cohomology theories for algebraic varieties, to play the role of the missing rational cohomology, and to provide a blueprint for proving Weil's

conjectures about the zeta function of a variety over a finite field Over the last ten years or so researchers in various areas Hodge theory algebraic K theory polylogarithms automorphic forms L functions ℓ adic representations trigonometric sums and algebraic cycles have discovered that an enlarged and in part conjectural theory of mixed motives indicates and explains phenomena appearing in each area Thus the theory holds the potential of enriching and unifying these areas This is one of two volumes containing the revised texts of nearly all the lectures presented at the AMS IMS SIAM Joint Summer Research Conference on Motives held in Seattle in 1991 A number of related works are also included making for a total of forty seven papers from general introductions to specialized surveys to research papers [Mathematical Reviews](#) ,2005 **Notices of the American Mathematical Society** American Mathematical Society,1991 **Combined Membership List of the American Mathematical Society and the Mathematical Association of America** American Mathematical Society,1991 Lists for 19 include the Mathematical Association of America and 1955 also the Society for Industrial and Applied Mathematics **Nagoya Mathematical Journal** ,2004 **Number Theory for the Millennium II** Michael A. Bennett,2002-05-09 Building on the tradition of an outstanding series of conferences at the University of Illinois at Urbana Champaign the organizers attracted an international group of scholars to open the new Millennium with a conference that reviewed the current state of number theory research and pointed to future directions in the field The conference was the largest general number theory conference in recent history featuring a total of 159 talks with the plenary lectures given by George Andrews Jean Bourgain Kevin Ford Ron Graham Andrew Granville Roger Heath Brown Christopher Hooley Winnie Li Kumar Murty Mel Nathanson Ken Ono Carl Pomerance Bjorn Poonen Wolfgang Schmidt Chris Skinner K Soundararajan Robert Tijdeman Robert Vaughan and Hugh Williams The Proceedings Volumes of the conference review some of the major number theory achievements of this century and to chart some of the directions in which the subject will be heading during the new century These volumes will serve as a useful reference to researchers in the area and an introduction to topics of current interest in number theory for a general audience in mathematics **Algebraic Number Theory and Related Topics 2008** [arXiv:0804.0000](#),2010 **The Cumulative Book Index** ,1992 A world list of books in the English language [The Classification of the Finite Simple Groups](#) Daniel Gorenstein,1998

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