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Higher Regulators, Algebraic K -Theory, and Zeta Functions of Elliptic Curves

Spencer J. Bloch



American Mathematical Society

Higher Regulators Algebraic K Theory And Zeta Functions Of Elliptic Curves Crm Monograph

Kevin P. Knudson



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Higher Regulators, Algebraic K-theory, and Zeta Functions of Elliptic Curves Spencer Bloch, 2000 These are the collected Irvine lectures by Spencer Bloch Delivered in 1978 at the University of California at Irvine these lectures turned out to be an entry point to several intimately connected new branches of arithmetic algebraic geometry such as regulators and special values of L functions of algebraic varieties explicit formulas for them in terms of polylogarithms the theory of algebraic cycles and eventually the general theory of mixed motives which unifies and underlies all of the above and much more **Higher**

Regulators, Algebraic K-Theory, and Zeta Functions of Elliptic Curves Spencer J. Bloch, 2011 This book is the long awaited publication of the famous Irvine lectures Delivered in 1978 at the University of California at Irvine these lectures turned out to be an entry point to several intimately connected new branches of arithmetic algebraic geometry such as regulators and special values of L functions of algebraic varieties explicit formulas for them in terms of polylogarithms the theory of algebraic cycles and eventually the general theory of mixed motives which unifies and underlies all of the above and much more In the 20 years since the importance of Bloch's lectures has not diminished A lucky group of people working in the above areas had the good fortune to possess a copy of old typewritten notes of these lectures Now everyone can have their own copy of this classic work Titles in this series are co published with the Centre de Recherches Mathématiques

Handbook of K-Theory Eric Friedlander, Daniel R. Grayson, 2005-07-18 This handbook offers a compilation of techniques and results in K theory Each chapter is dedicated to a specific topic and is written by a leading expert Many chapters present historical background some present previously unpublished results whereas some present the first expository account of a topic many discuss future directions as well as open problems It offers an exposition of our current state of knowledge as well as an implicit blueprint for future research **Lectures on Algebraic Cycles** Spencer Bloch, 2010-07-22 Spencer

Bloch's 1979 Duke lectures a milestone in modern mathematics have been out of print almost since their first publication in 1980 yet they have remained influential and are still the best place to learn the guiding philosophy of algebraic cycles and motives This edition now professionally typeset has a new preface by the author giving his perspective on developments in the field over the past 30 years The theory of algebraic cycles encompasses such central problems in mathematics as the Hodge conjecture and the Bloch Kato conjecture on special values of zeta functions The book begins with Mumford's example showing that the Chow group of zero cycles on an algebraic variety can be infinite dimensional and explains how Hodge theory and algebraic K theory give new insights into this and other phenomena Elliptic Integrals, Elliptic Functions and

Modular Forms in Quantum Field Theory Johannes Blümlein, Carsten Schneider, Peter Paule, 2019-01-30 This book includes review articles in the field of elliptic integrals elliptic functions and modular forms intending to foster the discussion between theoretical physicists working on higher loop calculations and mathematicians working in the field of modular forms and functions and analytic solutions of higher order differential and difference equations 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

Arithmetic L-Functions and Differential Geometric Methods

Pierre Charollois, Gerard Freixas i Montplet, Vincent Maillot, 2021-05-17 This book is an outgrowth of the conference Regulators IV An International Conference on Arithmetic L functions and Differential Geometric Methods that was held in Paris in May 2016 Gathering contributions by leading experts in the field ranging from original surveys to pure research articles this volume provides comprehensive coverage of the front most developments in the field of regulator maps Key topics covered are Additive polylogarithms Analytic torsions Chabauty Kim theory Local Grothendieck Riemann Roch theorems Periods Syntomic regulator The book contains contributions by M Asakura J Balakrishnan A Besser A Best F Bianchi O Gregory A Langer B Lawrence X Ma S Müller N Otsubo J Raimbault W Raskin D Rössler S Shen N Triantafyllou S nver and J Vonk

Arithmetic of Higher-Dimensional Algebraic Varieties Bjorn Poonen, Yuri Tschinkel, 2012-12-06

One of the great successes of twentieth century mathematics has been the remarkable qualitative understanding of rational and integral points on curves gleaned in part through the theorems of Mordell Weil Siegel and Faltings It has become clear that the study of rational and integral points has deep connections to other branches of mathematics complex algebraic geometry Galois and étale cohomology transcendence theory and diophantine approximation harmonic analysis automorphic forms and analytic number theory This text which focuses on higher dimensional varieties provides precisely such an interdisciplinary view of the subject It is a digest of research and survey papers by leading specialists the book documents current knowledge in higher dimensional arithmetic and gives indications for future research It will be valuable not only to practitioners in the field but to a wide audience of mathematicians and graduate students with an interest in arithmetic geometry

Number Theory

H. Kisilevsky, Eyal Zvi Goren, This volume contains a collection of articles from the meeting of the Canadian Number Theory Association held at the Centre de Recherches Mathématiques CRM at the University of Montreal The book represents a cross section of current research and new results in number theory Topics covered include algebraic number theory analytic number theory arithmetic algebraic geometry computational number theory and Diophantine analysis and approximation The volume contains both research and expository papers suitable for graduate students and researchers interested in number theory

Calabi-Yau Varieties and Mirror Symmetry Noriko Yui, James Dominic Lewis, 2003

idea of mirror symmetry originated in physics but in recent years the field of mirror symmetry has exploded onto the mathematical scene. It has inspired many new developments in algebraic and arithmetic geometry, toric geometry, the theory of Riemann surfaces and infinite dimensional Lie algebras among others. The developments in physics stimulated the interest of mathematicians in Calabi Yau varieties. This led to the realization that the time is ripe for mathematicians armed with many concrete examples and alerted by the mirror symmetry phenomenon to focus on Calabi Yau varieties and to test for these special varieties some of the great outstanding conjectures, e.g. the modularity conjecture for Calabi Yau threefolds defined over the rationals, the Bloch Beilinson conjectures, regulator maps of higher algebraic cycles, Picard Fuchs differential equations, GKZ hypergeometric systems and others. The articles in this volume report on current developments. The papers are divided roughly into two categories: geometric methods and arithmetic methods. One of the significant outcomes of the workshop is that we are finally beginning to understand the mirror symmetry phenomenon from the arithmetic point of view, namely in terms of zeta functions and L series of mirror pairs of Calabi Yau threefolds. The book is suitable for researchers interested in mirror symmetry and string theory.

The Arithmetic and Geometry of Algebraic Cycles B. Brent Gordon, 2000-01-01. From the June 1998 Summer School come 20 contributions that explore algebraic cycles, a subfield of algebraic geometry from a variety of perspectives. The papers have been organized into sections on cohomological methods, Chow groups and motives, and arithmetic methods. Some specific topics include logarithmic Hodge structures and classifying spaces, Bloch's conjecture and the K theory of projective surfaces and torsion zero cycles, and the Abel Jacobi map over the real numbers.

Algebraic Cycles and Motives: Volume 2 Jan Nagel, Chris Peters, 2007-05-03. A self-contained account of the subject of algebraic cycles and motives as it stands.

Publications mathématiques de Besançon N° 1/2010 Patrick Hild, 2010-03.

Periods in Quantum Field Theory and Arithmetic José Ignacio Burgos Gil, Kuruş Ebrahimi-Fard, Herbert Gangl, 2020-03-14.

This book is the outcome of research initiatives formed during the special Research Trimester on Multiple Zeta Values, Multiple Polylogarithms and Quantum Field Theory at the ICMAT Instituto de Ciencias Matemáticas Madrid in 2014. The activity was aimed at understanding and deepening recent developments where Feynman and string amplitudes on the one hand and periods and multiple zeta values on the other have been at the heart of lively and fruitful interactions between theoretical physics and number theory over the past few decades. In this book the reader will find research papers as well as survey articles including open problems on the interface between number theory, quantum field theory and string theory, written by leading experts in the respective fields. Topics include, among others, elliptic periods viewed from both a mathematical and a physical standpoint, further relations between periods and high energy physics, including cluster algebras and renormalisation theory, multiple Eisenstein series and q analogues of multiple zeta values also in connection with renormalisation, double shuffle and duality relations, alternative presentations of multiple zeta values using Ecalle's theory of moulds and arborification, a distribution formula for generalised complex and l -adic polylogarithms, Galois

action on knots Given its scope the book offers a valuable resource for researchers and graduate students interested in topics related to both quantum field theory in particular scattering amplitudes and number theory **Mathematical Adventures**

in Performance Analysis Eitan Bachmat, 2014-09-22 This book describes problems in the field of performance analysis primarily the study of storage systems and the diverse mathematical techniques that are required for solving them Topics covered include best practices for scheduling I/O requests to a disk drive how this problem is related to airplane boarding and how both problems can be modeled using space time geometry Also provided is an explanation of how Riemann's proof of the analytic continuation and functional equation of the Riemann zeta function can be used to analyze express line queues in a minimarket Overall the book displays the surprising relevance of abstract mathematics that is not usually associated with applied mathematics topics Advanced undergraduate students or graduate students with an interest in the applications of mathematics will find this book to be a useful resource It will also be of interest to professional mathematicians who want exposure to the surprising ways that theoretical mathematics may be applied to engineering problems To encourage further study each chapter ends with notes pointing to various related topics that the reader may want pursue This mathematically rigorous work was noted in the news section of the journal Nature and in popular media such as New Scientist The Wall Street Journal The Guardian and USA Today **Homology of Linear Groups** Kevin P. Knudson, 2012-12-06 Daniel Quillen's

definition of the higher algebraic K groups of a ring emphasized the importance of computing the homology of groups of matrices This text traces the development of this theory from Quillen's fundamental calculation of the cohomology of $GL_n F_q$ The stability theorems and low dimensional results of A Suslin W van der Kallen and others are presented as well as recent results for rank one groups A chapter on the Friedlander Milnor conjecture concerning the homology of algebraic groups made discrete is also included This marks the first time that these results have been collected in a single volume The book should prove useful to graduate students and researchers in K theory group cohomology algebraic geometry and topology

K-theory in Algebra, Analysis and Topology Guillermo Cortiñas, Charles A. Weibel, 2020 This volume contains the proceedings of the ICM 2018 satellite school and workshop K theory conference in Argentina The school was held from July 16-20, 2018 in La Plata Argentina and the workshop was held from July 23-27, 2018 in Buenos Aires Argentina The volume showcases current developments in K theory and related areas including motives homological algebra index theory operator algebras and their applications and connections Papers cover topics such as K theory of group rings Witt groups of real algebraic varieties coarse homology theories topological cyclic homology negative K groups of monoid algebras Milnor K theory and regulators noncommutative motives the classification of C algebras via Kasparov's K theory the comparison between full and reduced C crossed products and a proof of Bott periodicity using almost commuting matrices

Arithmetic Geometry Jean-Louis Colliot-Thélène, Peter Swinnerton-Dyer, Paul Vojta, 2010-10-27 Arithmetic Geometry can be defined as the part of Algebraic Geometry connected with the study of algebraic varieties through arbitrary rings in

particular through non algebraically closed fields It lies at the intersection between classical algebraic geometry and number theory A C I M E Summer School devoted to arithmetic geometry was held in Cetraro Italy in September 2007 and presented some of the most interesting new developments in arithmetic geometry This book collects the lecture notes which were written up by the speakers The main topics concern diophantine equations local global principles diophantine approximation and its relations to Nevanlinna theory and rationally connected varieties The book is divided into three parts corresponding to the courses given by J L Colliot Thelene Peter Swinnerton Dyer and Paul Vojta

The Geometry of Algebraic Cycles Reza Akhtar, Patrick Brosnan, Roy Joshua, 2010 The subject of algebraic cycles has its roots in the study of divisors extending as far back as the nineteenth century Since then and in particular in recent years algebraic cycles have made a significant impact on many fields of mathematics among them number theory algebraic geometry and mathematical physics The present volume contains articles on all of the above aspects of algebraic cycles It also contains a mixture of both research papers and expository articles so that it would be of interest to both experts and beginners in the field

Many Variations of Mahler Measures François Brunault, Wadim Zudilin, 2020-05-14 The Mahler measure is a fascinating notion and an exciting topic in contemporary mathematics interconnecting with subjects as diverse as number theory analysis arithmetic geometry special functions and random walks This friendly and concise introduction to the Mahler measure is a valuable resource for both graduate courses and self study It provides the reader with the necessary background material before presenting the recent achievements and the remaining challenges in the field The first part introduces the univariate Mahler measure and addresses Lehmer's question and then discusses techniques of reducing multivariate measures to hypergeometric functions The second part touches on the novelties of the subject especially the relation with elliptic curves modular forms and special values of L functions Finally the Appendix presents the modern definition of motivic cohomology and regulator maps as well as Deligne Beilinson cohomology The text includes many exercises to test comprehension and challenge readers of all abilities

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