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The Regulators of Beilinson and Borel

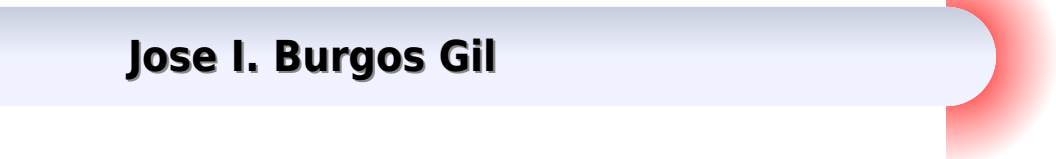
José I. Burgos Gil



American Mathematical Society

Regulators Of Beilinson And Borel

Jose I. Burgos Gil



Regulators Of Beilinson And Borel:

The Regulators of Beilinson and Borel Jose I. Burgos Gil, This mathematical monograph gives a complete proof of the fact that Borel's regulator map is twice Beilinson's regulator map Burgos Gil affiliation not cited follows the argument sketched in Beilinson's original paper and relies on very similar descriptions of the Chern-Weil morphisms and the van Est isomorphism The volume also introduces topics such as simplicial techniques Hopf algebras Lie algebra cohomology and continuous group cohomology c Book News Inc

The Regulators of Beilinson and Borel José Ignacio Burgos Gil, 2001 This book contains a complete proof of the fact that Borel's regulator map is twice Beilinson's regulator map The strategy of the proof follows the argument sketched in Beilinson's original paper and relies on very similar descriptions of the Chern-Weil morphisms and the van Est isomorphism The book has two different parts The first one reviews the material from algebraic topology and Lie group theory needed for the comparison theorem Topics such as simplicial objects Hopf algebras characteristic classes the Weil algebra Bott's Periodicity theorem Lie algebra cohomology continuous gr

Regulators in Analysis, Geometry and Number Theory Alexander Reznikov, Norbert Schappacher, 2012-12-06 This book is an outgrowth of the Workshop on Regulators in Analysis Geometry and Number Theory held at the Edmund Landau Center for Research in Mathematical Analysis of The Hebrew University of Jerusalem in 1996 During the preparation and the holding of the workshop we were greatly helped by the director of the Landau Center Lior Tsafiri during the time of the planning of the conference and Hershel Farkas during the meeting itself Organizing and running this workshop was a true pleasure thanks to the expert technical help provided by the Landau Center in general and by its secretary Simcha Kojman in particular We would like to express our hearty thanks to all of them However the articles assembled in the present volume do not represent the proceedings of this workshop neither could all contributors to the book make it to the meeting nor do the contributions herein necessarily reflect talks given in Jerusalem In the introduction we outline our view of the theory to which this volume intends to contribute The crucial objective of the present volume is to bring together concepts methods and results from analysis differential as well as algebraic geometry and number theory in order to work towards a deeper and more comprehensive understanding of regulators and secondary invariants Our thanks go to all the participants of the workshop and authors of this volume May the readers of this book enjoy and profit from the combination of mathematical ideas here documented

Beilinson's Conjectures on Special Values of L-Functions M. Rapoport, P. Schneider, N. Schappacher, 2014-07-14 Beilinson's Conjectures on Special Values of L-Functions deals with Alexander Beilinson's conjectures on special values of L-functions Topics covered range from Pierre Deligne's conjecture on critical values of L-functions to the Deligne-Beilinson cohomology along with the Beilinson conjecture for algebraic number fields and Riemann-Roch theorem Beilinson's regulators are also compared with those of Mordell-Borel Comprised of 10 chapters this volume begins with an introduction to the Beilinson conjectures and the theory of Chern classes from higher K-theory The simplest example

of an L function is presented the Riemann zeta function The discussion then turns to Deligne s conjecture on critical values of L functions and its connection to Beilinson s version Subsequent chapters focus on the Deligne Beilinson cohomology rings and Adams operations in algebraic k theory Beilinson conjectures for elliptic curves with complex multiplication and Beilinson s theorem on modular curves The book concludes by reviewing the definition and properties of Deligne homology as well as Hodge D conjecture This monograph should be of considerable interest to researchers and graduate students who want to gain a better understanding of Beilinson s conjectures on special values of L functions **The Bloch-Kato**

Conjecture for the Riemann Zeta Function John Coates,A. Raghuram,Anupam Saikia,R. Sujatha,2015-03-13 A graduate level account of an important recent result concerning the Riemann zeta function **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 *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 Conjectures in Arithmetic Algebraic Geometry Wilfred W. J. Hulsbergen,2013-06-29 In this expository text we sketch some interrelations between several famous conjectures in number theory and algebraic geometry that have intrigued mathematicians for a long period of time Starting from Fermat s Last Theorem one is naturally led to introduce L functions the main motivation being the calculation of class numbers In particular Kummer showed that the class numbers of cyclotomic fields play a decisive role in the corroboration of Fermat s Last Theorem for a large class of exponents Before Kummer Dirichlet had already successfully applied his L functions to the proof of the theorem on arithmetic progressions Another prominent appearance of an L function is Riemann s paper where the now famous Riemann Hypothesis was stated In short nineteenth century number theory showed that much if not all of number theory is reflected by properties of L functions Twentieth century number theory class field theory and algebraic geometry only strengthen the nineteenth century number theorists s view We just mention the work of E H cke E Artin A Weil and A Grothendieck with his collaborators Hecke generalized Dirichlet s L functions to obtain results on the distribution of primes in number fields Artin introduced his L functions as a non abelian generalization of Dirichlet s L functions with a generalization of class field theory to non abelian Galois extensions of number fields in mind **Convexity Properties of Hamiltonian Group Actions** Victor Guillemin,Reyer Sjamaar, This is a

monograph on convexity properties of moment mappings in symplectic geometry The fundamental result in this subject is the Kirwan convexity theorem which describes the image of a moment map in terms of linear inequalities This theorem bears a close relationship to perplexing old puzzles from linear algebra such as the Horn problem on sums of Hermitian matrices on which considerable progress has been made in recent years following a breakthrough by Klyachko The book presents a simple local model for the moment polytope valid in the generic case and an elementary Morse theoretic argument deriving the Klyachko inequalities and some of their generalizations It reviews various infinite dimensional manifestations of moment convexity such as the Kostant type theorems for orbits of a loop group due to Atiyah and Pressley or a symplectomorphism group due to Bloch Flaschka and Ratiu Finally it gives an account of a new convexity theorem for moment map images of orbits of a Borel su This volume is recommended for independent study and is suitable for graduate students and researchers interested in symplectic geometry algebraic geometry and geometric combinatorics

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The Geometric and Arithmetic Volume of Shimura Varieties of Orthogonal Type Fritz Hörmann, 2014-11-05 This book outlines a functorial theory of integral models of mixed Shimura varieties and of their toroidal compactifications for odd primes of good reduction This is the integral version developed in the author's thesis of the theory invented by Deligne and Pink in the rational case In addition the author develops a theory of arithmetic Chern classes of integral automorphic vector bundles with singular metrics using the work of Burgos Kramer and Kühn The main application is calculating arithmetic volumes or heights of Shimura varieties of orthogonal type using Borcherds' famous modular forms with their striking product formula an idea due to Bruinier Burgos Kühn and Kudla This should be seen as an Arakelov analogue of the classical calculation of volumes of orthogonal locally symmetric spaces by Siegel and Weil In the latter theory the volumes are related to special values of normalized Siegel Eisenstein series In this book it is proved that the Arakelov analogues are related to special derivatives of such Eisenstein series This result gives substantial evidence in the direction of Kudla's conjectures in arbitrary dimensions The validity of the full set of conjectures of Kudla in turn would give a conceptual proof and far reaching generalizations of the work of Gross and Zagier on the Birch and Swinnerton-Dyer conjecture Titles in this series are co published with the Centre de Recherches Mathematiques

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