The Riemann-Roch Theorem: A Hundred Years of Algebra

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Riemann Roch Algebra

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Riemann-Roch Algebra William Fulton,Serge Lang,1985-08-15 **Lectures on the Arithmetic Riemann-Roch Theorem. (AM-127), Volume 127** Gerd Faltings,2016-03-02 The arithmetic Riemann Roch Theorem has been shown recently by Bismut Gillet Soul The proof mixes algebra arithmetic and analysis The purpose of this book is to give a concise introduction to the necessary techniques and to present a simplified and extended version of the proof It should enable mathematicians with a background in arithmetic algebraic geometry to understand some basic techniques in the rapidly evolving field of Arakelov theory *Riemann-Roch Spaces and Computation* Paraskevas Alvanos,2015-03-11 The book focuses on the educational perspective of Riemann Roch spaces and the computation of algebraic structures connected to the Riemann Roch theorem which is a useful tool in fields of complex analysis and algebraic geometry On one hand the theorem connects the Riemann surface with its topological genus and on the other it allows us to compute the algebraic function field spaces In the first part of this book algebraic structures and some of their properties are presented The second part shows efficient algorithms and examples connected to Riemann Roch spaces What is important a variety of examples with codes of algorithms are given in the book covering the majority of the cases *The Theorem of Riemann-Roch* Douglas E. Lewan,1982 **An Arithmetic Riemann-Roch Theorem for Singular Arithmetic Surfaces** Wayne Aitken,1996 The following gives a development of Arakelov theory general enough to handle not only regular arithmetic surfaces but also a large class of arithmetic surfaces whose generic fiber has singularities This development culminates in an arithmetic Riemann Roch theorem for such arithmetic surfaces The first part of the memoir gives a treatment of Deligne s functorial intersection theory and the second develops a class of intersection functions for singular curves which behaves analogously to the canonical Green s functions introduced by Arakelov for smooth curves **Algebraic K-Theory, Commutative Algebra, and Algebraic Geometry** R. Keith Dennis,1992 In the mid 1960 s several Italian mathematicians began to study the connections between classical arguments in commutative algebra and algebraic geometry and the contemporaneous development of algebraic K theory in the US These connections were exemplified by the work of Andreotti Bombieri Salmon and Traverso on seminormality and by Bass Murthy on the Picard groups of polynomial rings Interactions proceeded far beyond this initial point to encompass Chow groups of singular varieties complete intersections and applications of K theory to arithmetic and real geometry This volume contains the proceedings from a US Italy Joint Summer Seminar which focused on this circle of ideas The conference held in June 1989 in Santa Margherita Ligure Italy was supported jointly by the Consiglio Nazionale delle Ricerche and the National Science Foundation The book contains contributions from some of the leading experts in this area A Celebration of Algebraic Geometry Brendan Hassett,James McKernan,Jason Starr,Ravi Vakil,2013-09-11 This volume resulted from the conference A Celebration of Algebraic Geometry which was held at Harvard University from August 25 28 2011 in honor of Joe Harris 60th birthday Harris is famous around the world for his lively

textbooks and enthusiastic teaching as well as for his seminal research contributions The articles are written in this spirit clear original engaging enlivened by examples and accessible to young mathematicians The articles in this volume focus on the moduli space of curves and more general varieties commutative algebra invariant theory enumerative geometry both classical and modern rationally connected and Fano varieties Hodge theory and abelian varieties and Calabi Yau and hyperk hler manifolds Taken together they present a comprehensive view of the long frontier of current knowledge in algebraic geometry Titles in this series are co published with the Clay Mathematics Institute Cambridge MA

Hirzebruch-Riemann-Roch Theorem for Differential Graded Algebras ,2009 Recall the classical Riemann Roch theorem for curves Given a smooth projective complex curve and two holomorphic vector bundles E F on it the Euler can be computed in terms of the ranks and the degrees of the vector bundles Remarkably there are a number of similarly looking formulas in algebra The simplest example is the Ringel formula in the theory of quivers It expresses the Euler form of two finite dimensional representations of a quiver algebra in terms of a certain pairing of their dimension vectors The existence of Riemann Roch type formulas in these two settings is a consequence of a deeper similarity in the structure of the corresponding derived categories those of sheaves on curves and of modules over quiver algebras The thesis is devoted to a version of the Riemann Roch formula for abstract derived categories By the latter we understand the derived categories of differential graded DG categories More specifically we work with the categories of perfect modules over DG algebras These are a simultaneous generalization of the derived categories of modules over associative algebras and the derived categories of schemes Given an arbitrary DG algebra A satisfying a certain finiteness condition we define and explicitly describe a canonical pairing on its Hochschild homology Then we give an explicit formula for the Euler character of an arbitrary perfect A module the character is an element of the Hochschild homology of A In this setting our noncommutative Riemann Roch formula expresses the Euler characteristic of the Hom complex between any two perfect A modules in terms of the pairing of their Euler characters One of the main applications of our results is a theorem that the aforementioned pairing on the Hochschild homology is non degenerate when the DG algebra satisfies a smoothness condition This theorem implies a special case of the well known noncommutative Hodge to de Rham degeneration conjecture Another application is related to mathematical physics We explicitly construct an open closed topological field theory from an arbitrary Frobenius algebra and then following ideas of physicists interpret the noncommutative Riemann Roch formula as a special case of the so called topological Cardy condition   Algebra, Arithmetic, and Geometry Yuri Tschinkel,Yuri Zarhin,2010-08-05 EMAlgebra Arithmetic and Geometry In Honor of Yu I ManinEM consists of invited expository and research articles on new developments arising from Manin s outstanding contributions to mathematics   **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 M ller N Otsubo J Raimbault W Raskin D R ssler S Shen N Triantafi llou S nver and J Vonk **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 mile 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 **Nachrichten von der Königl. Gesellschaft der Wissenschaften zu Göttingen** ,1895 **Nachrichten** Akademie der Wissenschaften in Göttingen. Mathematisch-Physikalische Klasse,1897 **Geometry and Topology: Aarhus** Karsten Grove,Ib Henning Madsen,Erik Kjær Pedersen,2000 This volume includes both survey and research articles on major advances and future developments in geometry and topology Papers include those presented as part of the 5th Aarhus Conference a meeting of international participants held in connection with ICM Berlin in 1998 and related papers on the subject This collection of papers is aptly published in the Contemporary Mathematics series as the works represent the state of research and address areas of future development in the area of manifold theory and geometry The survey articles in particular would serve well as supplemental resources in related graduate courses *Nachrichten von der KÃ¶nigl. Gesellschaft der Wissenschaften zu GÃ¶ttingen, Mathematisch-Physikalische Klasse* Gesellschaft der Wissenschaften zu GÃ¶ttingen Mathematisch-Physikalische Klasse,1897 **Schriftenreihe des Mathematischen Instituts der Universität Münster** ,1995 *Naturae novitates* ,1898 Nachrichten von der Königlichen Gesellschaft der Wissenschaften zu Göttingen Königliche Gesellschaft der Wissenschaften zu Göttingen,1895 Bonner mathematische Schriften ,1994 **Zeitschrift für Mathematik und Physik** ,1880

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