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**William Fulton**  
**Serge Lang**

**Riemann–Roch**  
**Algebra**



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# Riemann Roch Algebra

**Paulo Ribenboim**



## Riemann Roch Algebra:

**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, 2016-07-25 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

[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

**The Riemann-Roch Theorem for Algebraic Curves** Paulo Ribenboim, 1965

**The Riemann-Roch Theorem** Ellie Thieu, 2019

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

*The Theorem of Riemann-Roch* Douglas E. Lewan, 1982

*Advanced Algebra* Anthony W. Knap, 2007-10-11

Basic Algebra and Advanced Algebra systematically develop concepts and tools in algebra that are vital to every mathematician whether pure or applied aspiring or established Advanced Algebra includes chapters on modern algebra which treat various topics in commutative and noncommutative algebra and provide introductions to the theory of associative algebras homological algebras algebraic number theory and algebraic geometry Together the two books give the reader a global view of algebra its role in mathematics as a whole and are suitable as texts in a two semester advanced undergraduate or first year graduate sequence in algebra

**Representation Theory of Algebras** Raymundo Bautista, Roberto Martínez-Villa, José Antonio de la Peña, 1996

Addressed to graduate students and research mathematicians interested in associative rings and algebras The 42 papers consider such topics as Frobenius functions on translation quivers examples of distinguished tilting sequences on homogeneous varieties separable deformations of blocks with abelian normal defect group and of derived equivalent global blocks strong exact Borel sub algebras and global dimensions of quasi hereditary algebras and the Auslander Reiten quiver of restricted enveloping algebras Also includes tributes to mathematician Maurice Auslander 1926-94 No index Member prices are 77 for individuals and 103 for institutions Annotation copyright by Book News Inc Portland OR

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 hyperkähler 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

**An Introduction to Riemann Surfaces,**

**Algebraic Curves and Moduli Spaces** Martin Schlichenmaier, 2010-02-11 This book gives an introduction to modern geometry Starting from an elementary level the author develops deep geometrical concepts that play an important role in contemporary theoretical physics presenting various techniques and viewpoints along the way This second edition contains two additional more advanced geometric techniques the modern language and modern view of Algebraic Geometry and Mirror Symmetry

**Complex Analysis** Serge Lang, 2003-07-30 Now in its fourth edition the first part of this book is devoted to the basic material of complex analysis while the second covers many special topics such as the Riemann Mapping Theorem the gamma function and analytic continuation Power series methods are used more systematically than is found in other texts and the resulting proofs often shed more light on the results than the standard proofs While the first part is suitable for an introductory course at undergraduate level the additional topics covered in the second part give the instructor of a graduate course a great deal of flexibility in structuring a more advanced course

**Algebraic Geometry and Number Theory** Hussein Mourtada, Celal Cem Sarioğlu, Christophe Soulé, Ayberk Zeytin, 2017-05-07 This lecture notes volume presents significant contributions from the Algebraic Geometry and Number Theory Summer School held at Galatasaray University Istanbul June 2-13 2014 It addresses subjects ranging from Arakelov geometry and Iwasawa theory to classical projective geometry birational geometry and equivariant cohomology Its main aim is to introduce these contemporary research topics to graduate students who plan to specialize in the area of algebraic geometry and or number theory All contributions combine main concepts and techniques with motivating examples and illustrative problems for the covered subjects Naturally the book will also be of interest to researchers working in algebraic geometry number theory and related fields

**An Algebraic Proof to the Riemann-Roch Theorem** Albert Heinrich, 2022

**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

*Algebra, Arithmetic, and Geometry* Yuri Tschinkel, Yuri Zarhin, 2010-08-05

**Algebra Arithmetic and Geometry In Honor of Yu I Manin** EM consists of invited expository and research articles on new developments arising from Manin's outstanding contributions to mathematics

*Algebraic Geometry* H. Kurke, J.H.M. Steenbrink, 2012-12-06 The Conference on Algebraic Geometry held in Berlin 9-15 March 1988 was organised by the Sektion

Mathematik of the Humboldt Universitat The organising committee consisted of H Kurke W Kleinert G Pfister and M Roczen The Conference is one in a series organised by the Humboldt Universitat at regular intervals of two or three years with the purpose of providing a meeting place for mathematicians from eastern and western countries The present volume contains elaborations of part of the lectures presented at the Conference and some articles on related subjects All papers were subject to the regular refereeing procedure of Compositio Mathematica and H Kurke acted as a guest editor of this journal The papers focus on actual themes in algebraic geometry and singularity theory such as vector bundles arithmetical algebraic geometry intersection theory moduli and Hodge theory We are grateful to all those who by their hospitality their presence at the Conference their support or their written contributions have made this Conference to a success The editors Compositio Mathematica 76 viii 1990     Introduction to the Theory of Algebraic Numbers and Functions ,1966-01-01 Introduction to the Theory of Algebraic Numbers and Functions     **Introduction To Algebraic Geometry And Commutative Algebra** Dilip P Patil,Uwe Storch,2010-03-31 This introductory textbook for a graduate course in pure mathematics provides a gateway into the two difficult fields of algebraic geometry and commutative algebra Algebraic geometry supported fundamentally by commutative algebra is a cornerstone of pure mathematics Along the lines developed by Grothendieck this book delves into the rich interplay between algebraic geometry and commutative algebra A selection is made from the wealth of material in the discipline along with concise yet clear definitions and synopses

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