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A Series of Comprehensive Studies in Mathematics

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Riemann–Roch
Algebra



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Riemann Roch Algebra

Douglas E. Lewan



Riemann Roch Algebra:

Riemann-Roch Algebra William Fulton, Serge Lang, 1985-08-15 **Riemann-Roch Algebra** William Fulton, Serge Lang, 2014-01-15 **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 **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

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

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