

## NOTES ON...

ABSTRACT. Notes on... typesetted by Pedro Núñez. Any errors or typos were likely introduced by myself; corrections and any other suggestions are very much appreciated!

### CONTENTS

1. Example section	1
References	1

### 1. EXAMPLE SECTION

Hirzebruch–Riemann–Roch [Har77, Thm. A.4.1] states that for a locally free sheaf  $\mathcal{E}$  of rank  $r$  on a nonsingular projective variety  $X$  of dimension  $n$ ,

$$\chi(\mathcal{E}) = \deg(\mathrm{ch}(\mathcal{E}) \cdot \mathrm{td}(\mathcal{T}))_n,$$

where  $(\ )_n$  denotes the component of degree  $n$  in  $A(X) \otimes \mathbb{Q}$ .

### REFERENCES

- [Har77] Robin Hartshorne. *Algebraic geometry*. Graduate Texts in Mathematics, No. 52. Springer-Verlag, New York-Heidelberg, 1977, pp. xvi+496. ISBN: 0-387-90244-9.

PEDRO NÚÑEZ

ALBERT-LUDWIGS-UNIVERSITÄT FREIBURG, MATHEMATISCHES INSTITUT  
ERNST-ZERMELO-STRASSE 1, 79104 FREIBURG IM BREISGAU (GERMANY)

Email address: [pedro.nunez@math.uni-freiburg.de](mailto:pedro.nunez@math.uni-freiburg.de)

Homepage: <https://home.mathematik.uni-freiburg.de/nunez>

I would like to thank the DFG-Graduiertenkolleg GK1821 “Cohomological Methods in Geometry” for their support!

Date: 16th March 2021.