

# SHORT NOTES ON...

## 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*. Springer-Verlag, New York-Heidelberg, 1977. Graduate Texts in Mathematics, No. 52.