# SHORT NOTES ON...

## Contents

## 1. Example section

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

$$\chi(\mathscr{E}) = \deg(\operatorname{ch}(\mathscr{E}).\operatorname{td}(\mathscr{T}))_n,$$

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.

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*Date*: 1st April 2021.