

## ALGEBRAIC GEOMETRY - PREREQUISITES

Here we discuss prerequisites for notes in this directory. The classical book [Mac Lane, 1998] contains presentation of category theory. Topological notions that we need can be found in the very first chapters of monograph [Engelking, 1989]. For commutative algebra we recommend excellent book [Atiyah and MacDonald, 1969]. We also use some facts from the field of homological algebra. For this we recommend the reader of our notes to look in relevant parts of [Weibel, 1995]. Exhaustive and excellent introduction to the language of schemes is [Grothendieck and Dieudonné, 1971]. The reader may want first to confer [Eisenbud et al., 2000], which does not cover the same amount of material but explains important intuitions behind abstract concepts.

### REFERENCES

- [Atiyah and MacDonald, 1969] Atiyah, M. F. and MacDonald, I. G. (1969). *Introduction to commutative algebra*. Addison-Wesley-Longman.
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