

AN INTRODUCTION TO ALGEBRAICALLY CLOSED FIELDS & VARIETIES

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This introductory chapter has two aims: to explain to geometers what is the Logic point of view on algebraically closed fields, and to unveil to logicians the fundamentals of algebraic geometry. It is expected that geometers and logicians will find here a common language; since Logic is far more direct than Geometry in the introduction of its basic concepts, this language will have a definite logical flavour; I hope that it will help the geometers to understand what arose the interest of logicians in algebraic groups, at an admittedly elementary level, but which nevertheless may bring some new contributions in this field.

I wrote this note when I was an invited professor in the University of Notre Dame du Lac; on this occasion, I witnessed how serious a matter was language tests for post-graduate students in the U.S.; this is the reason why I also designed this chapter to be an introduction to mathematical French, this beautiful language being so necessary for anybody who wish to have a deep insight either in Geometry or in Logic.