

David Eisenbud et al. (Eds.)
**Computations in Algebraic Geometry
with Macaulay 2**

This book presents algorithmic tools for algebraic geometry and experimental applications of them. It also introduces a software system in which the tools have been implemented and with which the experiments can be carried out. Macaulay 2 is a computer algebra system devoted to supporting research in algebraic geometry, commutative algebra, and their applications. The reader of this book will encounter Macaulay 2 in the context of concrete applications and practical computations in algebraic geometry. The expositions of the algorithmic tools presented here are designed to serve as a useful guide for those wishing to bring such tools to bear on their own problems. These expositions will be valuable to both the users of other programs similar to Macaulay 2 (for example, Singular and CoCoA) and those who are not interested in explicit machine computations at all. The first part of the book is primarily concerned with introducing Macaulay 2, whereas the second part emphasizes the mathematics.

ACM
∞
Eisenbud et al. (Eds.)



Algorithms
and Computation
in Mathematics

Volume 8

David Eisenbud
Daniel R. Grayson
Michael Stillman
Bernd Sturmfels (Eds.)

**Computations
in Algebraic
Geometry with
Macaulay 2**

Computations in Algebraic Geometry
with Macaulay 2



Springer

ISSN 1431-1550

ISBN 3-540-42230-7



9 783540 422303

<http://www.springer.de>

HKS 4

HKS 42

42683

17.8.01

design&production GmbH – MB

Dieser Farbausdruck/pdf-file kann nur annähernd
das endgültige Druckergebnis wiedergeben!