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The geometry of schemes

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Eisenbud, David,
author

Springer,
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Monografía

The theory of schemes is the foundation for algebraic geometry proposed and elaborated by Alexander Grothendieck and his coworkers. It has allowed major progress in classical areas of algebraic geometry such as invariant theory and the moduli of curves. It integrates algebraic number theory with algebraic geometry, fulfilling the dreams of earlier generations of number theorists. This integration has led to proofs of some of the major conjectures in number theory (Deligne's proof of the Weil Conjectures, Faltings proof of the Mordell Conjecture). This book is intended to bridge the chasm between a first course in classical algebraic geometry and a technical treatise on schemes. It focuses on examples, and strives to show "what is going on" behind the definitions. There are many exercises to test and extend the reader's understanding. The prerequisites are modest: a little commutative algebra and an acquaintance with algebraic varieties, roughly at the level of a one-semester course. The book aims to show schemes in relation to other geometric ideas, such as the theory of manifolds. Some familiarity with these ideas is helpful, though not required

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Título: The geometry of schemes David Eisenbud, Joe Harris

Editorial: New York Springer ©2000

Descripción física: 1 online resource (x, 294 pages)

Tipo Audiovisual: Andre fag (naturvidenskab og teknik) Andre fag

Mención de serie: Graduate texts in mathematics 197

Bibliografía: Includes bibliographical references (pages 279-283) and index

Contenido: Cover -- Table of Contents -- Introduction -- 1. Basic Definitions -- 2. Examples -- 3. Projective Schemes -- 4. Classical Constructions -- 5. Local Constructions -- 6. Schemes and Functors -- References

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ISBN: 0387226397 electronic bk.) 9780387226392 electronic bk.) 1280010479 9781280010477 6610010471 9786610010479 0387986375 9780387986371 0387986383 9780387986388

Materia: Schemes (Algebraic geometry) Schémas (Géométrie algébrique) MATHEMATICS- Geometry- Algebraic. Schemes (Algebraic geometry) Schémas (Géométrie algébrique) Algebraic Geometry.

Autores: Harris, Joseph (1951-), author

Enlace a formato físico adicional: Print version Eisenbud, David. Geometry of schemes. New York : Springer, ©2000 0387986375 0387986383 (DLC) 99036219 (OCoLC)41580624

Punto acceso adicional serie-Título: Graduate texts in mathematics 197

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