

Algebraic Geometry And Arithmetic Curves By Qing Liu

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Algebraic Geometry And Arithmetic Curves

Algebraic Geometry and Arithmetic Curves. Oxford Graduate Texts in Mathematics, 6 (2002), Oxford University Press, 576 pages, 63 figures. ISBN 0-19-850284-2 Paperback new edition (2006) Oxford University Press, ISBN 0-19-920249-4 China edition (2013) World ...

Algebraic Geometry and Arithmetic Curves

Algebraic Geometry and Arithmetic Curves. Qing Liu. Oxford University Press, 2002 - Mathematics - 576 pages. 0 Reviews. This book is a general introduction to the theory of schemes, followed by...

Algebraic Geometry and Arithmetic Curves - Qing Liu ...

Arithmetic geometry (= numbertheory + algebraic geometry) is notorious for being an intricate subject with a long and steep learning curve. The student must become familiar with important but difficult results, many of which are only expounded upon in the primary literature.

Algebraic Geometry and Arithmetic Curves | Mathematical ...

The necessity of studying singular curves arises, among other things, from the fact that an arithmetic (hence regular) surface in general has fibers that are singular. These seven chapters can be used for a basic course on algebraic geometry. The second part of the book is made up of three chapters.

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Introduction 1. Some topics in commutative algebra 2. General Properties of schemes 3. Morphisms and base change 4. Some local properties 5. Coherent sheaves and Cech cohomology 6. Sheaves of differentials 7. Divisors and applications to curves 8. Birational geometry of surfaces 9. Regular surfaces 10. Reduction of algebraic curves Bibliography Index

[PDF] Algebraic Geometry and Arithmetic Curves | Semantic ...

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Algebraic Geometry - Math User Home Pages

Algebraic geometry over fields which are not algebraically closed. ... Silverman, The Arithmetic of Elliptic Curves. This is the book on elliptic curves. Silverman works hard to be 'accessible' and 'friendly', while introducing the student to the highbrow perspective.

Math 788: Elliptic Curves and Arithmetic Geometry, Spring 2020

This new-in-paperback edition provides a general introduction to algebraic and arithmetic geometry, starting with the theory of schemes, followed by applications to arithmetic surfaces and to the theory of reduction of algebraic curves. The first part introduces basic objects such as schemes, morphisms, base change, local properties ...

Algebraic Geometry and Arithmetic Curves (Oxford Graduate ...

Algebraic Geometry And Arithmetic Curves written by Qing Liu and has been published by Oxford University Press this book supported file pdf, txt, epub, kindle and other format this book has been release on 2006-06-29 with Mathematics categories.

Download [PDF] Arithmetic Algebraic Geometry

In mathematics, arithmetic geometry is roughly the application of techniques from algebraic geometry to problems in number theory. Arithmetic geometry is centered around Diophantine geometry, the study of rational points of algebraic varieties. In more abstract terms, arithmetic geometry can be defined as the study of schemes of finite type over the spectrum of the ring of integers.

Arithmetic geometry - Wikipedia

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In mathematics, a scheme is a mathematical structure that enlarges the notion of algebraic variety in several ways, such as taking account of multiplicities (the equations $x = 0$ and $x^2 = 0$ define the same algebraic variety and different schemes) and allowing "varieties" defined over any commutative ring (for example, Fermat curves are defined over the integers).

Scheme (mathematics) - Wikipedia

An algebraic curve C is the graph of an equation $f(x, y) = 0$, with points at infinity added, where $f(x, y)$ is a polynomial, in two complex variables, that cannot be factored. Curves are classified by a nonnegative integer—known as their genus, g —that can be calculated from their polynomial.

Algebraic geometry | mathematics | Britannica

1 Some topics in commutative algebra 1 --2 General properties of schemes 26 --3 Morphisms and base change 78 --4 Some local properties 115 --5 Coherent sheaves and Čech cohomology 157 --6 Sheaves of differentials 210 --7 Divisors and applications to curves 252 --8 Birational geometry of surfaces 317 --9 Regular surfaces 375 --10 Reduction of algebraic curves 454.

Algebraic geometry and arithmetic curves (Book, 2006 ...

Qing Liu, Algebraic geometry and arithmetic curves, 592 pp. Oxford Univ. Press 2002; D. Eisenbud, J. Harris, The geometry of schemes, Springer Grad. Texts in Math. David Mumford, Red book of varieties and schemes (cf. also unfinished sequel notes for the later part of Mumford's course, coauthored with Oda, ch. 1-6 pdf, ch. 7-8 pdf)

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This new-in-paperback edition provides a general introduction to algebraic and arithmetic geometry, starting with the theory of schemes, followed by applications to arithmetic surfaces and to the theory of reduction of algebraic curves. The first part introduces basic objects such as schemes, morphisms, base change, local properties (normality, regularity, Zariski's Main Theorem).

Algebraic Geometry and Arithmetic Curves - Qing Liu ...

This course introduces some of the basic results and techniques in arithmetic geometry, with emphasis on Diophantine applications. Topics will include a subset of the following: the p -adic numbers, the local-global principle, algebraic geometry of curves, Mordell's theorem, Diophantine

approximation, and Siegel's theorem.

18.782: Arithmetic Geometry - MIT Mathematics

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