

Lectures On Elliptic Curves



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Lectures on Elliptic Curves (London Mathematical Society ...

The p-adic numbers are introduced from scratch, as is the little that is needed on Galois cohomology. Many examples and exercises are included for the reader. For those new to elliptic curves, whether they are graduate students or specialists from other fields, this will be a fine introductory text.

LMSST: 24 Lectures on Elliptic Curves by J. W. S. Cassels

This section includes lecture notes for every class session, plus associated files. Subscribe to the OCW Newsletter: Help ... Some of the theorems and algorithms presented in lecture are demonstrated using Sage, an open-source computer algebra system with extensive support for computing with elliptic curves.

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nonsingular curve of genus 1; taking $O = (0 : 1 : 0)$ makes it into an elliptic curve. 2. The cubic $3X^3 + 4Y^3 + 5Z^3$ is a nonsingular projective curve of genus 1 over \mathbb{Q} , but it is not an elliptic curve, since it does not have a single rational point. In fact, it has points over \mathbb{R} and all the \mathbb{Q}_p , but no rational points, and thus

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The study of special cases of elliptic curves goes back to Diophantos and Fermat, and today it is still one of the liveliest centers of research in number theory. This book, addressed to beginning graduate students, introduces basic theory from a contemporary viewpoint but with an eye to the historical background. The central portion deals with curves over the rationals: the Mordell-Weil finite ...

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Lecture 2: January 21 Chapter 2: Some remarks on plane curves In this section we work over an algebraically closed field $K = \overline{\mathbb{Q}}$ with $\text{char}(K) \neq 2$. Definition 2.1 (rational algebraic curve, rational parametrization). An algebraic curve is rational if it is birational to \mathbb{P}^1 (i.e. there is a rational map to \mathbb{P}^1 that has a rational inverse).

A course in Elliptic Curves - MIT Mathematics

the (expected) related special value formulas. In the case of an elliptic curve this can include the p-part of the Birch-Swinnerton-Dyer formula when the analytic rank is at most one. The aim of these lectures is to describe the Iwasawa theory of elliptic curves, stating the

LECTURES ON THE IWASAWA THEORY OF ELLIPTIC CURVES

Lecture notes on elliptic curve cryptography Raymond van Bommel Curves over finite fields, Fall 2017, Leiden 1 Discrete logarithm problem and encryption In its full generality the discrete logarithm problem is the following: given a group G and elements a and b , find an integer k such that $bk = a$ (given that

Lecture notes on elliptic curve cryptography

The p-adic numbers are introduced from scratch, as is the little that is needed on Galois cohomology. Many examples and exercises are included for the reader. For those new to elliptic curves, whether they are graduate students or specialists from other fields, this will be a fine introductory text.

Lectures on elliptic curves in SearchWorks catalog

Abstract: These informal notes are an expanded version of lectures on the moduli space of elliptic curves given at Zhejiang University in July, 2008. Their goal is to introduce and motivate basic

concepts and constructions (such as orbifolds and stacks) important in the study of moduli spaces of curves and abelian varieties through the example of elliptic curves.

[0812.1803] Lectures on Moduli Spaces of Elliptic Curves

SUPPLEMENTARY LECTURE NOTES ON ELLIPTIC CURVES 5 plane cubic $aX^3 + bY^3 + cZ^3 = 0$ has a K -rational point - so is an elliptic curve - then it is isomorphic over K to the elliptic curve $J(C) : X^3 + Y^3 + abcZ^3 = 0$. Here "isomorphic" means something more general than just "projectively equiva-

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