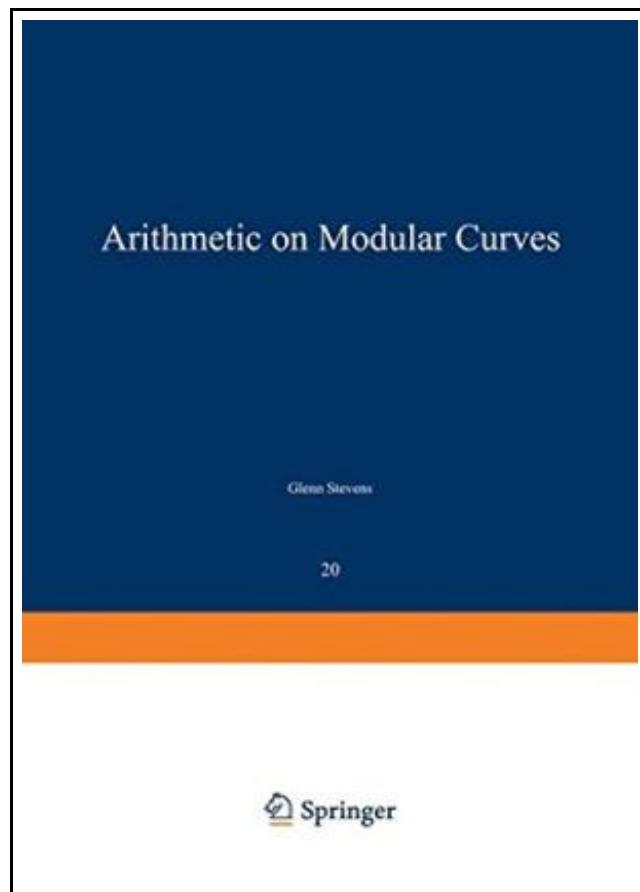


Arithmetic on Modular Curves



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Reviews

This pdf is indeed gripping and interesting. It is definitely simplistic but shocks within the 50 percent of your book. Once you begin to read the book, it is extremely difficult to leave it before concluding.
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ARITHMETIC ON MODULAR CURVES

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Book Condition: New. Publisher/Verlag: Springer, Basel | One of the most intriguing problems of modern number theory is to relate the arithmetic of abelian varieties to the special values of associated L-functions. A very precise conjecture has been formulated for elliptic curves by Birch and Swinnerton-Dyer and generalized to abelian varieties by Tate. The numerical evidence is quite encouraging. A weakened form of the conjectures has been verified for CM elliptic curves by Coates and Wiles, and recently strengthened by K. Rubin. But a general proof of the conjectures seems still to be a long way off. A few years ago, B. Mazur [26] proved a weak analog of these conjectures. Let N be prime, and f be a weight two newform for $\Gamma_0(N)$. For a primitive Dirichlet character χ of conductor prime to N , let $i_f(\chi)$ denote the algebraic part of $L(f, \chi, 1)$ (see below). Mazur showed in [26] that the residue class of $A_f(\chi)$ modulo the "Eisenstein" ideal gives information about the arithmetic of $X_0(N)$. There are two aspects to his work: congruence formulae for the values $A_f(\chi)$, and a descent argument. Mazur's congruence formulae were extended to $\Gamma_1(N)$, N prime, by S. Kamienny and the author [17], and in a paper which will appear shortly, Kamienny has generalized the descent argument to this case. | 1. Background.- 1.1. Modular Curves.- 1.2. Hecke Operators.- 1.3. The Cusps.- 1.4. \mathbb{S} % MathType!MTEF!2!1!+- % feaagCart1ev2aaatCvAUfeBSjuyZL2yd9gzLbvyNv2CaerbuLwBLn % hiov2DGi1BTfMBaeXatLxBl9gBaerb9wDYLwzYbItLDharqqtubsr 4rNCHbGeaGqiVu0Je9sqrpepC0xbbl8F4rqqrFfpeea0xe9Lq-Jc9 % vqaqpepm0xbba9pwe9Q8fs0-yqaqpepae9pg0FirpepeKkFr0xfr-x % fr-xb9adbaqaaeGaciGaiaabeqaamaabaabaaGcbaWefv3ySLgznf % gDOjdaryqr1ngBPrqinfgDObcv39gaiuqacqWFtcpaaa!41F4! \mathbb{S}-modules and Periods of Cusp Forms.- 1.5. Congruences.- 1.6. The Universal Special Values.- 1.7. Points of finite order in $\text{Pic}_0(X(\square))$.- 1.8. Eisenstein Series and the Cuspidal Group.- 2. Periods of Modular Forms.- 2.1. L-functions.- 2.2. A Calculus of Special Values.-...



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