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A Cohen-Lenstra phenomenon for elliptic curves

Chantal David, Ethan Smith

(Submitted on 7 Jun 2012)

Given an elliptic curve E and a finite Abelian group G, we consider the problem of counting the number of primes p for which the group of points modulo p is isomorphic to G. Under a certain conjecture concerning the distribution of primes in short intervals, we obtain an asymptotic formula for this problem on average over a family of elliptic curves.

Subjects: **Number Theory (math.NT)**

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