

1056-11-1936      **Nahid Walji\*** ([nahid@caltech.edu](mailto:nahid@caltech.edu)). *Supersingular distribution on average for congruence classes of primes.*

A general question of interest is to know, for elliptic curves over a number field, the distribution of supersingular primes of degree one. We begin by modifying the Lang-Trotter heuristic to address the case of an abelian extension, then we show that it holds on average (up to a constant) for a family of elliptic curves by using ideas of David-Pappalardi. (Received September 22, 2009)