1035-11-1300 **Behailu Mammo\*** (matbzm@hofstra.edu), 108 Adams Hall, 103 Hofstra University, Hempstead, NY 11549. An Asymptotic Formula for the Number of Abelian Extensions of a Number Field. Let  $G = C_{\ell} \times C_{\ell}$  denote the product of two cyclic groups of prime order  $\ell$ , and K be an algebraic number field. Let N(K,G,m) denote the number of abelian extensions L of K with Galois group G(L/K) isomorphic to G, and the relative discriminant D(L/K) of norm equal to m. In this talk, we will derive an asymptotic formula for  $\sum_{m \leq X} N(K,G,m)$ . (Received September 19, 2007)