Decomposition of primes in non-Galois extensions

In this talk we consider separable non-Galois extensions F/K of a global field K. Let L be a Galois extension of K containing F with G = Gal(L/K) and H = Gal(L/F). We will show that if G is a finite group of Lie type defined over \mathbb{F}_q and H is a parabolic subgroup of G, then the number of primes of F lying over a tamely ramified place of K with given residue degree can be as polynomials in q. This polynomials are determined by the length function on the certain subgroups of the Weyl group of G.