
#### Abstract

It's well known that the quadratic residue code over finite fields is an interesting class of cyclic codes for its higher minimum distance. Let $g$ be a positive integer and p,p_\{1\}, ..., p_\{g\} be distinct odd primes, this talk generalizes the constructions for the quadratic residue code with length $p$ to be the length $n=p \_\{1\} \mid c d o t s ~ p \_\{g\}$, and to be the case m-th residue codes with length $p$ over finite fields, where mlgeq 2 is a positive integer. Furthermore, a criterion for that these codes are self-orthogonal or complementary dual is obtained, and then the corresponding counting formula are given, respectively.


