KARIM SAMEI, Bu Ali Sina University, Hamedan, Iran.
Singleton Bounds for R-additive Codes

Shiromoto (Linear algebra Applic 295 (1999) 191-200) obtained the basic exact sequence for the Lee and Euclidean weights of linear codes over $\mathbb{Z}_\ell$ and as an application, he found the Singleton Bounds for linear codes over $\mathbb{Z}_\ell$ with respect to Lee and Euclidean weights. Huffman (Adv. Math. Commun 7 (3) (2013) 349-378) obtained the Singleton Bound for $\mathbb{F}_q$-linear $\mathbb{F}_{q^t}$-codes with respect to Hamming weight?. ?Recently the theory of $\mathbb{F}_q$-linear $\mathbb{F}_{q^t}$-codes were generalized to R-additive codes over R-algebras by Samei and Mahmoudi. In this paper, we generalize Shiromoto's results for linear codes over $\mathbb{Z}_\ell$ to R-additive codes. As an application, when R is a chain ring, we obtain the Singleton Bounds for R-additive codes over free R-algebras. Among other results, the Singleton Bounds for additive codes over Galois rings are given.