$\begin{tabular}{ll} \textbf{Abstract} \\ \textbf{Skew Cyclic Codes Over} \ F_2 + vF_2 \\ \end{tabular}$

Pani Seneviratne

Department of Mathemtics American University of Sharjah

In paper we will discuss skew cyclic codes over the ring $R=F_2+vF_2=\{0,1,v,v+1\}$, where $v^2=v$. We will show that the only commutative rings with four elements and with non trivial ring automorphism are the finite field GF(4) and the ring R. We will find a set of generators for cyclic codes defined over this ring.