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Simplex Codes Over the Ring $\sum_{n=0}^s u^n F_2$

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Abstract: In this paper, we introduce simplex linear codes over the ring $\sum_{n=0}^s u^n F_2$ of types α and β , where $u^{s+1}=0$. And we determine their properties. These codes are an extension and generalization of simplex codes over the ring Z_2^s .

Key Words: Simplex codes, chain rings, Z_p^s -codes and $\sum_{n=0}^s u^n F_2$ -linear codes



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