

Dan Dumitru, *A Remark on Linear Codes*

Abstract

The aim of this paper is to give an obstruction to the existence of $[n; k; d]$ -linear codes. We prove in particular that there are no $[2k+1; k; k+1]$ -binary linear codes for every $k \geq 4$: For the ternary case we prove in particular that there are no $[3k + 1; k; 2k + 1]$ -ternary linear codes for every $k \geq 3$: We also prove that there is no linear code C over F_q of parameters $[qk; k; (q - 1)k + 1]$ for every $k \geq 2$:

Keywords: *Linear codes, Binary codes.*

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