Nonexistence of Some Griesmer Codes
of Dimension 4 over $\mathbb{F}_8$

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We prove the nonexistence of $[g_8(4, d), 4, d]_8$ code for $d = 173$, 574, 695, 810 using the geometric method, where $g_q(k, d) = \sum_{i=0}^{k-1} \lceil d/q^i \rceil$.