Maximal Sets of Unit-distant Points

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\textbf{Abstract.} For an arbitrary field $F$ the maximal number $\omega_1(F^n)$ of points in $F^n$ mutually distance 1 apart with respect to the standard inner product is investigated. If the characteristic $\chi(F)$ is different from 2, then the values of $\omega_1(F^n)$ lie between $n-1$ and $n+2$. A complete evaluation of $\omega_1(\mathbb{Q}^n)$ is given.

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