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*Erdos distance problem in vector spaces over finite fields*

The classical Erdos distance problem says that  $N$  points in  $\mathbb{R}^d$  determine at least  $N^{\frac{2}{d}-\delta}$  Euclidean distances. We shall discuss an analog of this problem in vector spaces over finite fields. Estimates for classical Kloosterman sums play an important role.