

Empty simplices

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Let X be an n -element point set in general position in \mathbb{R}^d . For a k -element subset let the k -degree be the number of empty simplices that one can form. The k -degree of the set X itself is defined as the maximum degree over all k -element subset of X . We show that if X is a random point set consisting of n independently and uniformly chosen points from a compact set K then the degree is surprisingly large.