The edit distance between two graphs on the same labeled vertex set is defined to be the size of the symmetric difference of the edge sets, divided by \( \binom{n}{\lfloor n/2 \rfloor} \). The edit distance function of a hereditary property \( \mathcal{H} \) is a function of \( p \in [0,1] \) that measures, in the limit, the maximum normalized edit distance between a graph of density \( p \) and \( \mathcal{H} \). It is also, again in the limit, the edit distance of the Erdős-Rényi random graph \( G(n,p) \) from \( \mathcal{H} \).

In this talk, we discuss some connections between this problem and algebraically-defined graphs. We will also present results for new hereditary properties. (Received January 16, 2019)