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Expressing graphs as symmetric differences of cliques of the complete graph.

Any finite simple graph $G = (V, E)$ can be represented by a collection \mathcal{C} of subsets of V such that $uv \in E$ if and only if u and v appear together in an odd number of sets in \mathcal{C} . We are interested in the minimum cardinality of such a collection. In this talk, we will discuss properties of this invariant and its close connection to the minimum rank problem. (Received February 16, 2021)