**Metric dimension of bipartite graphs**

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A resolving set of a connected graph $G$ is a set $\{w_1, w_2, \ldots, w_k\}$ of vertices of $G$ with the property that every vertex $v$ of $G$ is uniquely determined by the distances $d(w_1, v), d(w_2, v), \ldots, d(w_k, v)$. The metric dimension of $G$ is the cardinality of a smallest resolving set.

In this talk we present upper bounds on the number of vertices of a graph in terms of metric dimension and diameter for various graph classes. In particular we determine the maximum order of a bipartite graph with given diameter and metric dimension.

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