

Well-Bisective Graphs

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We call a graph G of order $2n$ *well-bisective* if for every partition of $V(G)$ into two sets V_1 and V_2 of n vertices each, the induced subgraphs $G[V_1]$ and $G[V_2]$ are isomorphic. In this paper, we characterize all disconnected well-bisective graphs. They are $2nK_1$, nK_2 , $2C_4$ and $2K_n$.

Joint work with M. H. Shirdareh Haghighi.