

THE WELL-COVERED DIMENSION OF PRODUCTS OF GRAPHS

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Abstract

We discuss how to find the well-covered dimension of a graph that is the Cartesian product of paths, cycles, complete graphs, and other simple graphs. Also, a bound for the well-covered dimension of $K_n \times G$ is found, provided that G has a largest greedy independent decomposition of length $c < n$.

Formulae to find the well-covered dimension of graphs obtained by vertex blowups on a known graph, and to the lexicographic product of two known graphs are also given.

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