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The Dominating Graph

For a graph G and a positive integer k , the k -dominating graph of G , $D_k(G)$, has vertices corresponding to the dominating sets of G with cardinality at most k . Two vertices of $D_k(G)$ are joined by an edge if the corresponding sets differ in exactly one element. We explore the question of determining a $k_0(G)$ such that for all $k \geq k_0(G)$, $D_k(G)$ is connected. This is joint work with Ruth Haas.