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Covering lexicographic products of graphs with independent sets and cliques

A graph is (k, l) -colourable, if its vertex set can be covered by k independent sets and l -cliques. Two variants of the chromatic number that arise from this concept are the cochromatic number and the bichromatic number. We will investigate the behaviour of these graph invariants for the lexicographic product of graphs, establish some general bounds and give some precise results for a few interesting cases.