



# Classes of graphs with small rank decompositions are chi-bounded

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A class of graphs  $G$  is chi-bounded if the chromatic number of graphs in  $G$  is bounded by a function of the clique number. We show that if a class  $G$  is chi-bounded, then every class of graphs admitting a decomposition along cuts of small rank to graphs from  $G$  is chi-bounded. As a corollary, we obtain that every class of graphs with bounded rank-width (or equivalently, clique-width) is chi-bounded.

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