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Choosability of Graphs with Bounded Order: Ohba's Conjecture and Beyond

Choosability is a well-studied variant of graph colouring. The *choice number* $\text{ch}(G)$ of a graph G is the minimum k such that for any assignment of lists of size k to the vertices of G , there is a proper colouring in which every vertex is coloured with an element of its list.

Although ch is not bounded above by any function of χ in general, one can still consider the relationship between ch and χ for restricted families of graphs. We discuss recent results and open problems regarding the choice number of graphs of bounded order (with respect to χ).