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Extendable Vertices in Well-Covered Graphs

A graph G is said to be *well-covered* if every maximal independent set of vertices in G has the same cardinality. A vertex v in a well-covered graph G is said to be *extendable* provided both (1) $G \setminus v$ is well-covered and (2) the independence numbers of G and $G \setminus v$ are equal. We present both a survey of results regarding such vertices and some extensions of this idea.

This work is joint with various sets of coauthors, the union of which includes **R. Nowakowski**, B. Hartnell, M. D. Plummer and C. Whitehead.