

Graphs with exactly t different sizes of maximal independent sets of vertices

We say that a graph G is in the collection M_t if there are precisely t different sizes of maximal independent sets of vertices in G . Thus the M_1 graphs are the well-covered ones (introduced by M. Plummer) where all the maximal independent sets are of one size. We examine graphs of higher girth belonging to M_t in the situation that the minimum degree is at least two. This is based on joint work with D. Rall.