

On prime graphs of finite groups

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The prime (or Gruenberg-Kegel) graph of a finite group G is an undirected simple graph whose vertex set is the set $\pi(G)$ of all prime divisors of the order of G and two vertices p and q are adjacent if and only if there exists an element of order pq in G . The prime graph of a finite group is its important arithmetical invariant, having numerous applications.

In this talk, we discuss some results on finite groups whose prime graphs have given properties.