

Vizing's Independence Number Conjecture of Critical Graphs

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Abstract

A graph of maximum degree Δ is Δ -critical if its edge chromatic number is $\Delta + 1$ and the edge chromatic number of any proper subgraph is at most Δ . In 1968, Vizing conjectured that if a graph G is a Δ -critical graph with n vertices, then the independence number $\alpha(G) \leq n/2$. In this talk, I will talk about some recent results about this conjecture.