

Domination number of graphs with fixed minimum degree

Csilla Bujtás

University of Ljubljana

`csilla.bujtas@fmf.uni-lj.si`

We discuss upper bounds on the domination number of graphs with a fixed minimum degree. The main result states that for every graph G on n vertices and with minimum degree 5, the domination number $\gamma(G)$ cannot exceed $n/3$. The proof is obtained via an algorithmic approach where a weighting method is combined with a discharging process.