THE UPPER DOMINATION RAMSEY NUMBERS

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The upper domination Ramsey number $u(m,n)$ is the smallest integer $p$ such that in every 2-coloring the edges of $K_p$ with color red (R) and blue (B), $\Gamma(B) \geq m$ or $\Gamma(R) \geq n$, where $\Gamma(G)$ is the maximum cardinality of a minimal dominating set of a graph $G$. Up to now, there have been known only few exact values for such numbers. We present new bounds for $u(4,4)$.

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References