

THE NUMBER OF INDEPENDENT SETS INCLUDING THE SET OF LEAVES IN GRAPHS

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A subset $S \subset V(G)$ is independent if no two vertices in S are adjacent. In this talk we discuss the number $\sigma_L(G)$ being the total number of independent sets including the set of leaves in a graph G . In particular we consider this parameter in $(n, n + 1)$ -graphs and we give the smallest and the largest value of $\sigma_L(G)$. Moreover we characterize extremal graphs achieving the minimum and maximum value of the parameter $\sigma_L(G)$.

References

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