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Bounding χ as a convex combination of ω and $\Delta + 1$

Abstract: It has been conjectured that χ is at most $\lceil \frac{\omega + \Delta + 1}{2} \rceil$. It is known that there is a positive ϵ such that $\chi \leq \lceil \epsilon\omega + (1 - \epsilon)(\Delta + 1) \rceil$. We provide a new proof of the latter result which yeilds an improved value of ϵ. This is joint work with Andrew King.