From the abstract: The contradiction clique number $ccl(G)$ of a graph G is the maximal r for which G has a subcontraction to the complete graph K^r. We prove that for $d > 2$, almost every graph of order n satisfies $n((\log_2 n)^{\frac{1}{2}} + 4)^{-1} \leq ccl(G) \leq n(\log_2 n - d \log_2 \log_2 n)^{-\frac{1}{2}}$. This inequality implies the statement in the title.

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