

ON A PROBLEM OF J. PARIS

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A question asked by J. Paris (see Problem 34 in the list in [1]) is whether or not Δ_n induction implies Σ_n collection. We sketch alternative proofs of results of T. Slaman ([3]) and N. Thapen ([4]) concerning this problem, especially for the case $n = 1$. Our proofs depend on results of C. Dimitracopoulos and J. Paris ([2]) concerning relationships between Σ_n collection and (versions of) Σ_n pigeonhole principle.

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