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*On the maximum orders of an induced forest, an induced tree, and a stable set*

Let  $G$  be a connected graph,  $n$  the order of  $G$ , and  $f$  (resp.  $t$ ) the maximum order of an induced forest (resp. tree) in  $G$ . We give upper bounds for  $f-t$  (depending upon the value of  $n$ ) and show that these bounds are tight. We give similar results for the difference between the stability number of  $G$  and the maximum order of an induced tree in  $G$ .