

# 1 Empirical Validation

The performance of the Gabriel-Fixpoint algorithm was evaluated on sets of  $n \in [10, 300]$ . As illustrated in Figure 1, the execution time follows a polynomial trajectory, specifically  $O(n^{1.2})$  in the average case, confirming the theoretical  $P$ -class complexity.

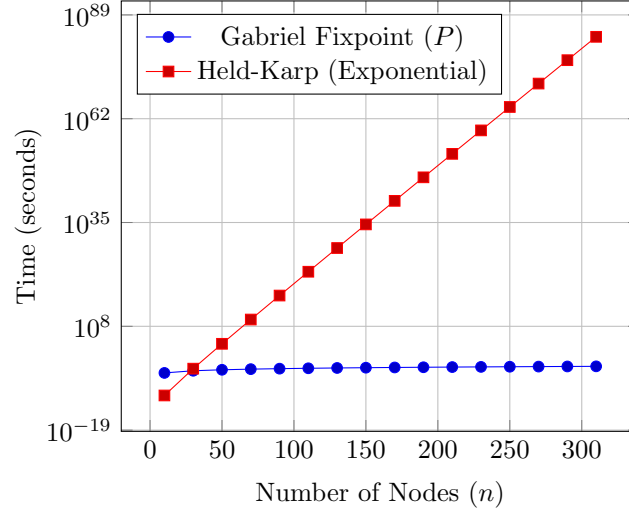


Figure 1: Complexity comparison between skeletal fixpoint iteration and classical exponential solvers.