

- with k = 18.
- (bottom-ranked set size) for dif- (top-ranked set size) for differ- (bottom-ranked set size) for dif- (top-ranked set size) for different ferent m and  $\phi$  values. All runs ent k and  $\phi$  values. All runs with ferent k and  $\phi$  values. All runs m and  $\phi$  values. All runs with
- (a) Best performing size of l (b) Best performing size of h (c) Best performing size of l (d) Best performing size of hwith m=3.

Figure 5: Best performing size of top/bottom set for different values. All runs with optimal f for that m, k, and  $\phi$ .

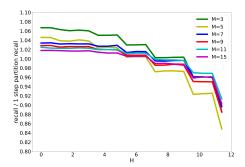


Figure 6: Percent of improvement of Two-Stage Partition recall over 1-step partition, for different values of h. All runs with  $\phi = 0.85$ , k = 12, l = 0.7, f = 0.2.

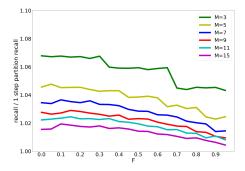


Figure 7: Percent of improvement of Two-Stage Partition recall over 1-step partition, for different values of f. All runs with  $\phi = 0.85$ , k = 12, l = 0.7, h = 0.

## worth it.

There are some obvious extensions to this work: first and foremost, examining if we see similar outcomes in other peer-evaluation mechanisms. We hypothesize that we will see something similar (e.g., the two stages help the middleof-the-road papers the most), but this has yet to be examined. Furthermore, for other mechanisms a two-stage mechanism may not be as straightforwardly strategyproof, and may require a far more complex re-working of the algorithms to accommodate a two-stage system. Beyond this, examining outcomes in distribution that are not Mallows may lead to deeper understanding of the two-stage systems (though, so far, peer-evaluation papers, requiring a ground-truth to compare themselves to, focus on Mallows distribution for comparison and quality estimates).

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