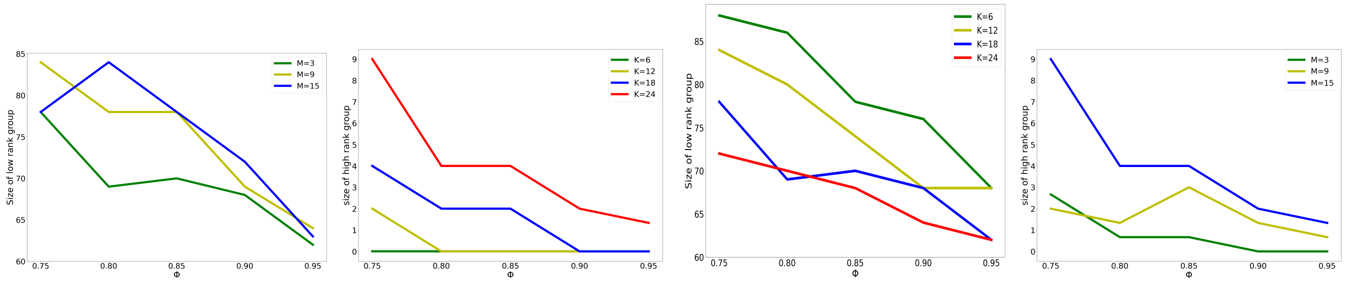

(a) Best performing size of l (bottom-ranked set size) for different m and ϕ values. All runs with $k = 18$.

(b) Best performing size of h (top-ranked set size) for different k and ϕ values. All runs with $m = 15$.

(c) Best performing size of l (bottom-ranked set size) for different k and ϕ values. All runs with $m = 3$.

(d) Best performing size of h (top-ranked set size) for different m and ϕ values. All runs with $k = 24$.

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

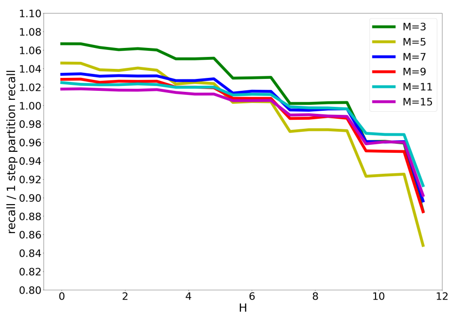

Figure 6: Percent of improvement of Two-Stage Partition recall over 1-step partition, for different values of h. All runs with $\phi = 0.85$, $k = 12$, $l = 0.7$, $f = 0.2$.

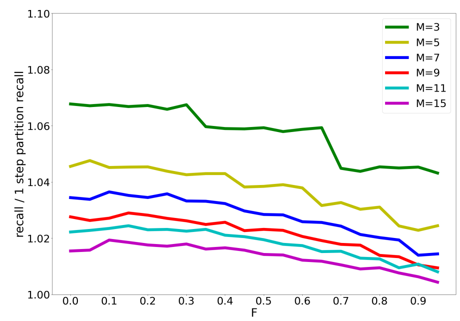

Figure 7: Percent of improvement of Two-Stage Partition recall over 1-step partition, for different values of f. All runs with $\phi = 0.85$, $k = 12$, $l = 0.7$, $h = 0$.

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 middle-of-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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