

2-Restricted Optimal Rubbling of Graphs

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For a graph $G = (V, E)$, a pebbling distribution f is defined as $f : V \rightarrow \mathbb{Z}^+$, where each vertex $v \in V$ begins with $f(v)$ pebbles. A pebbling move takes two pebbles from some vertex adjacent to v and places one pebble on v . A rubbling move takes one pebble from each of two vertices that are adjacent to v and places one pebble on v . A vertex x is reachable under a pebbling distribution f if there exists some sequence of rubbling and pebbling moves that places a pebble on x . A pebbling distribution where every vertex is reachable is called a rubbling configuration. The t -restricted optimal rubbling number of G is the minimum number of pebbles required for a rubbling configuration where no vertex is assigned more than t pebbles. Here we present results on the 2-restricted optimal rubbling number.