Pebbling on a class of semilattices

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Given a graph $G = (V, E)$, and a distribution of pebbles on the vertices of G, a *pebbling move* along an edge $uv \in E$ involves removing two pebbles from u and adding one pebble to v. The *pebbling number* of G with respect to $v \in V$, $\pi(G, v)$ is the smallest integer p so that we can reach v via pebbling moves starting with *any* distribution of at least p pebbles. We study the case where G is the covering graph of a semilattice that is 'downward closed'. This leads to a nice structural characterization of a class of median graphs resolving a question posed by H.M. Mulder in 1990.

Keywords: median graph, pebbling, semilattice