On $k$-Edge-Magic Halin Graphs

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Let $G$ be a $(p, q)$-graph in which the edges are labeled $k, k + 1, \ldots, k + q - 1$, where $k > 0$. The vertex sum for a vertex $v$ is the sum of the labels of the incident edges at $v$. If the vertex sums are constant, $(\text{mod } p)$, then $G$ is said to be $k$-edge-magic. In this paper we investigate some classes of Halin graphs which are $k$-edge-magic.

Keywords: edge-magic, trees, cycle, Halin graphs, $k$-edge-magic.