

$L(2, 1)$ -LABELINGS OF SOME FAMILIES OF ORIENTED PLANAR GRAPHS

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Abstract

In this paper we determine, or give lower and upper bounds on, the 2-dipath and oriented $L(2, 1)$ -span of the family of planar graphs, planar graphs with girth 5, 11, 16, partial k -trees, outerplanar graphs and cacti.

Keywords: 2-dipath $L(2, 1)$ -labeling, oriented $L(2, 1)$ -labeling, homomorphism, planar graph, girth, partial k -tree, outerplanar graph, cactus.

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