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Group distance magic labeling of Cartesian product of cycles. (English) Zbl 1278.05210

Australas. J. Comb. 55, 167-174 (2013).

Summary: A group distance magic labeling of a graph $G(V, E)$ with $|V| = n$ is an injection from V to an abelian group Γ of order n such that the sum of labels of all neighbors of every vertex $x \in V$ is equal to the same element $\mu \in \Gamma$. We completely characterize all Cartesian products $C_k \square C_m$ that admit a group distance magic labeling by Z_{km} .

MSC:

[05C78](#) Graph labelling (graceful graphs, bandwidth, etc.)

[05C76](#) Graph operations (line graphs, products, etc.)

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