

## On the Integer-Magic Spectra of Connected and Sliced Cycles

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For a positive integer  $k$ , a graph  $G = (V, E)$  is  $\mathbb{Z}_k$ -magic if there exists a function, namely, a labeling,  $l : E(G) \rightarrow \mathbb{Z}_k^*$  such that the induced vertex set labeling  $l^+ : V(G) \rightarrow \mathbb{Z}_k$ , where  $l^+(v)$  is the sum of the labels of the edges incident with a vertex  $v$  is a constant map. Note that 1-magic is  $\mathbb{Z}$ -magic. The set of all positive integer  $k$  such that  $G$  is  $k$ -magic is denoted by  $\text{IM}(G)$ . We call this set the *integer-magic spectrum* of  $G$ . In this paper, we investigate the integer-magic spectra of the connected and sliced cycles and the exact values are presented.

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