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Integer Antimagic Labeling for Cycle with One Chord

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Poster Presentation P40

**INTEGER ANTIMAGIC LABELING FOR CYCLE
WITH ONE CHORD**

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For $k \geq 2$, a graph G is called Z_k -*antimagic* if there exists a labeling of its edges $f: E(G) \rightarrow Z_k - \{0\}$ such that the labels induced on the vertices given by the sums of the labels of the edges incident to each vertex are all distinct. For a given graph G , the *integer antimagic spectrum* is the set of all integers k for which G is Z_k -antimagic. This project focuses on characterizing the integer antimagic spectrum for a class of graphs $C_n(l)$, which are composed of a cycle and a chord inside the cycle, C_n . Our method consists of the alternating path and alternating cycle labelings and also previous results on the existence of Z_k -antimagic labelings of cycles.