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## Integer Antimagic Labeling for Cycle with One Chord

Jinze Zheng

*Illinois Wesleyan University*

Daniel Roberts, Faculty Advisor

*Illinois Wesleyan University*

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Poster Presentation P40

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

Jinze Zheng and Daniel Roberts\*

Mathematics Department, Illinois Wesleyan University

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.