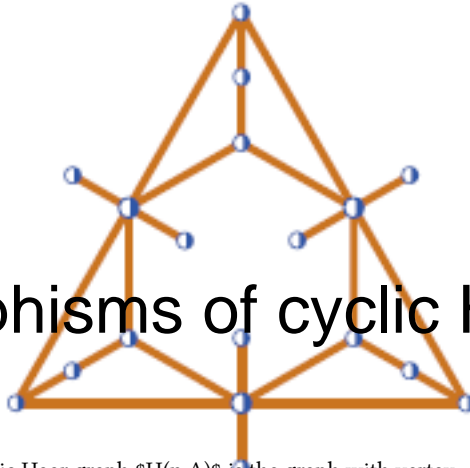


Bled'11 - 7th Slovenian International Conference on Graph Theory

Contribution ID : 182

On isomorphisms of cyclic Haar graphs



Content :

For a subset A of \mathbb{Z}_n , the cyclic Haar graph $H(n,A)$ is the graph with vertex set

$\mathbb{Z}_n^+ \cup \mathbb{Z}_n^-$, and edge set $\{ \{x^+, y^-\} : x, y \in \mathbb{Z}_n, y - x \in A \}$.

In this talk we describe the isomorphism classes of these graphs in the case when $|A| \leq 4$. As an application, we obtain a closed form solution to the enumeration problem of cyclic 3-configurations.

Primary authors : Mr. KOIKE, Sergio Hiroki (FAMNIT, University of Primorska) ; Dr. KOVÁCS, István (FAMNIT, University of Primorska) ; Dr. PISANSKI, Tomaž (IMFM, University of Ljubljana)

Co-authors :

Presenter : Mr. KOIKE, Sergio Hiroki (FAMNIT, University of Primorska)

Session classification : --not yet classified--

Track classification : Cayley Graphs

Type : Oral presentation