

Cyclic automorphism groups of graphs

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In 1978 and 1981, S. P. Mohanty, M. R. Sridharan, and S. K. Shukla [2,3] started to consider cyclic automorphism groups, of graphs, of prime and prime power order. Unfortunately the main results were false or had wrong proofs.

In [1], I gave a full description of cyclic automorphism groups, of graphs and edge-colored graphs, of prime power order. Now, I will present generalization of this description to all cyclic automorphism groups of graphs and edge-colored graphs.

References:

- [1] M. Grech *Graphical cyclic permutation groups* *Discrete Mathematics* 337 (2014), 25–33,
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- [3] S. P. Mohanty, M. R. Sridharan, S. K. Shukla, *Graphical cyclic permutation groups*, *Combinatorics and graph theory (Calcutta, 1980)*, 339 – 346, *Lecture Notes in Math.*, 885, Springer, Berlin - New York, 1981,