

## LABELED EMBEDDING OF $(n, n-2)$ -GRAPHS IN THEIR COMPLEMENTS

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### Abstract

Graph packing generally deals with unlabeled graphs. In [4], the authors have introduced a new variant of the graph packing problem, called the *labeled packing of a graph*. This problem has recently been studied on trees [M.A. Tahraoui, E. Duchêne and H. Kheddouci, *Labeled 2-packings of trees*, *Discrete Math.* **338** (2015) 816–824] and cycles [E. Duchêne, H. Kheddouci, R.J. Nowakowski and M.A. Tahraoui, *Labeled packing of graphs*, *Australas. J. Combin.* **57** (2013) 109–126]. In this note, we present a lower bound on the labeled packing number of any  $(n, n - 2)$ -graph into  $K_n$ . This result improves the bound given by Woźniak in [*Embedding graphs of small size*, *Discrete Appl. Math.* **51** (1994) 233–241].

**Keywords:** packing of graphs, labeled packing, permutation.

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