

ON THE NUMBER OF α -LABELED GRAPHS

CHRISTIAN BARRIENTOS

AND

SARAH MINION

Department of Mathematics
Clayton State University
Morrow, Georgia 30260, USA

e-mail: chr_barrientos@yahoo.com
sarah.m.minion@gmail.com

Abstract

When a graceful labeling of a bipartite graph places the smaller labels in one of the stable sets of the graph, it becomes an α -labeling. This is the most restrictive type of difference-vertex labeling and it is located at the very core of this research area. Here we use an extension of the adjacency matrix to count and classify α -labeled graphs according to their size, order, and boundary value.

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