

1044-05-7

Saad El-Zanati* (saad@ilstu.edu), Campus Box 4520, Department of Mathematics, Illinois State University, Normal, IL 61790-4520. *On Rosa-type labelings and cyclic graph decompositions.*

Let G be a graph with n edges. A *Rosa-type labeling* of G is a labeling that yields a cyclic G -decomposition of K_{2n+1} or of K_{2nx+1} , where x is a positive integer. These labelings are named for Alex Rosa who pioneered this area in the 1960's. We will survey some of the known Rosa-type labelings and discuss some of the open problems in this area. (Received May 07, 2008)