Wannasiri Wannasit\* (nasit049@yahoo.com), Department of Mathematics, Chiang Mai University, Chiang Mai, 502200, Thailand, and Saad El-Zanati. On Rosa-Type Labelings of 3-regular Graphs.

A labeling of a graph G is an assignment of integers to the vertices of G subject to certain conditions. Several labelings were introduced by Rosa in the late 1960's as means of obtaining cyclic graph decompositions. Rosa showed that certain basic labelings of a graph G with n edges yielded cyclic G-decompositions of  $K_{2n+1}$  while other stricter labelings yielded cyclic G-decompositions of  $K_{2nx+1}$  for all natural numbers x. We investigate the labelings of various classes of 3-regular (cubic) graphs and report on our results. (Received September 22, 2010)