

Abstract

An injective function $c : V \rightarrow \{1, 2, 3, \dots\}$ satisfying

$$|c(x) - c(y)| + d(x, y) \geq \text{diam}(G) + 1$$

for all distinct vertices x and y , is called a radio labeling of G , also called multilevel distance labeling for G . The largest number used in the range of c is called the span of the labeling c . The radio number of G is the minimum span taken over all radio labelings of G . In this thesis, we compute the radio number for wedge of graphs. More specifically, we extend the results given in [16] and compute the radio number of some graph families whose radio numbers are not known yet.