

## Some Graph Labelings

Suman Balasubramanian\*, Simon Foss, DePauw University

Labelings in graphs was first introduced by Rosa (1967) where, for a graph  $G$  with  $m$  edges and  $n$  vertices, a  $\beta$ -valuation  $f: V(G) \rightarrow \{0, 1, 2, \dots, m\}$  is an injection that assigns values to the vertices, such that, when each edge is assigned the value  $|f(v) - f(u)|$  for every edge  $uv \in E$ , the edge values are all distinct. In this talk, we will discuss some results on some graph labelings such as, the directed Fibonacci integer norm of graphs,  $k$ - Fibonacci Graceful Labeling of certain graphs.

Keywords: Graph Labelings