1109-05-70 **Christian Barrientos** and **Sarah Minion*** (`sarah.m.minion@gmail.com`). *A Classification of Alpha Graphs.*

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, not only, the number of α-labeled graphs of size n but also to count and classify them according to their order and boundary value. (Received January 20, 2015)