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Ji Young Choi* (jychoi@ship.edu), 1871 Old Main Drive, Department of Mathematics, Shippensburg Univ of PA, Shippensburg, PA 17257. *Boundaries of the minimum* P_k total weights. Preliminary report.

The sum of weights for each path of length k in a graph with edges of weight 1 or -1 is called the P_k total weight of the graph, and the minimum of the absolute value of the P_k total weight is called the minimum P_k total weight. This talk will present the boundaries of the minimum P_k total weights for the graphs, including paths, cycles, and simple types of trees. (Received September 13, 2007)