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)

