962-05-56  **Lon H Mitchell\***, Department of Mathematics, University of Kansas, Lawrence, KS, and **Sivaram K Narayan**, Department of Mathematics, Central Michigan University, Mt. Pleasant, MI 48858. *A Classification of Types of Trees.*

Let $L(G)$ be the Laplacian matrix of a simple graph $G$. the characteristic valuation associated with the algebraic connectivity $a(G)$ is used in classifying trees as Type I and Type II. In this paper, we prove that a tree $T$ is Type I if and only if the algebraic connectivity $a(T)$ is in the spectrum of $\hat{L}(B)$ for some branch $B$ of $T$. (Received July 10, 2000)