

1077-VH-1962      **Eva Czabarka, Peter Erdos, Virginia Johnson\*** (johnsonv@mailbox.sc.edu), **Anne Kupczok** and **Laszlo Szekely**. *Asymptotically normal distribution of some tree families relevant for phylogenetics.*

P.L. Erdős and L.A. Székely gave a bijection between leaf-labeled trees and partitions. This, together with the asymptotic normality of the Stirling numbers of the second kind (L.H. Harper) translates to the asymptotic normality of rooted leaf-labeled trees with fixed number of vertices (and varying number of leaves). We extend these results to obtain asymptotic normality of certain categories of phylogenetic trees. (Received September 21, 2011)