1117-05-49   **Eva Czabarka** and **Laszlo A. Szekely*** (`szekely@math.sc.edu`), USC Department of Mathematics, Columbia, SC 29208, and **Stephan Wagner**. *On the number of nonisomorphic subtrees of a tree.*

We show that a tree of order n has at most $O(5^{n/4})$ nonisomorphic subtrees, and that this bound is best possible. We also prove an analogous result for the number of nonisomorphic rooted subtrees of a rooted tree. (Received December 25, 2015)