

1125-05-1579

**Isaac Benjamin Michael\*** ([isaac\\_michael@baylor.edu](mailto:isaac_michael@baylor.edu)), 207 North Calvert Street, Franklin, TX 77856, and **Mark Sepanski**. *Net Regular Signed Trees*.

The notion of a signed graph was first introduced by Harary. A signed graph consists of a graph and a labeling of the edges with  $\pm 1$ . A signed graph is called net regular if the sum of the signs of every edge incident to each vertex is constant. Graphs that admit a signing making them net regular are called net regularizable.

In this paper, net regular signed trees are studied, including general properties, conditions for a finite tree to be net regularizable, and an algorithm that computes the initial terms of the generating function for the number of net regularizable trees. (Received September 18, 2016)