

1023-05-687

Xiangqian Zhou* (xzhou@olemiss.edu), Department of Mathematics, PO BOX 1848, University, MS 38677, and **Mark Watkins** (mewatkin@syr.edu). *Distinguishability of Locally Finite Trees.*

Albertson and Collins (1996) defined a graph G to be n -*distinguishable* if there exists a function $f : V(G) \rightarrow \{0, 1, \dots, n-1\}$ such that no non-trivial automorphism of G fixes setwise every $f^{-1}(k)$. In this talk we will present some results on the distinguishability of locally finite trees. This is joint work with Mark Watkins. (Received September 20, 2006)