1046-05-159 Lynnette Snyder* (lynnette.snyder@simpson.edu). The Relaxed Coloring Game on Certain Classes of Trees. Preliminary report.
We consider the $(r, d)$-relaxed coloring game on different classes of graphs. Two players, Alice and Bob, color the vertices of a graph $G$ with $r$ colors. Alice has the first move. A color $\alpha$ is legal for a vertex $x$ if $x$ has at most $d$ neighbors colored $\alpha$, and if $w$, a neighbor of $x$ colored $\alpha$, has at most $d-1$ neighbors colored $\alpha$. Alice wins if every vertex is colored, while Bob wins if at some point an uncolored vertex has no legal color. We show that Alice has a winning strategy in the (2,1)-coloring game on stars and extensions of stars. (Received August 07, 2008)

