Meeting: 1003, Atlanta, Georgia, AMS CP 1, AMS Contributed Paper Session

1003-05-762 **Annalies Vuong*** (azv@umail.ucsb.edu), **James Gardner**, **Alberto Teguia**, **Nathaniel Watson** and **Carl Yerger**. *Domination Cover Pebbling.* Preliminary report.

We introduce the notion of domination cover-pebbling. The domination cover-pebbling number, $\psi(G)$, of a graph G is the minimum number of pebbles that must be placed on $V(G)$ such that after a sequence of pebbling moves, the set of vertices with pebbles forms a dominating set of G – regardless of the initial configuration of pebbles. Basic results of $\psi(G)$ are discussed and $\psi(G)$ is determined for paths, cycles and complete binary trees. (Received September 29, 2004)