1107-05-424 **Brian Nakamura*** (bnaka@dimacs.rutgers.edu) and **Elizabeth Yang**. *Competition graphs and permutation patterns.* Preliminary report.

Given a directed graph D, its corresponding competition graph G is the undirected graph with the same vertex set as D and the edge set $E(G)$ where there exists an edge uv in $E(G)$ if and only if there exists a vertex w such that arcs (u, w) and (v, w) are both in $V(D)$. In this talk, we will introduce the notion of permutations inducing competition graphs and show interesting connections that these graphs have with patterns in permutations. (Received January 20, 2015)