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Anant Godbole* (godbolea@etsu.edu). *Acquisition and Domination: Paths, Randomness, and Abundance*. Preliminary report.

This will be a talk in which the key themes are domination and acquisition on the n -path. The definitions are modified, however, so that we speak of (i) online domination when the vertices of a graph are *randomly revealed* one at a time by an adversary who knows that the graph is indeed a path; and (ii) The concentration of the total acquisition number of the n -path when n units of weight are *randomly* placed on its vertices. We end by presenting a series of results on abundance of minimum dominating sets of size γ given a graph G with domination number γ . This is joint work with Chris Coscia, Jon Dewitt, Elizabeth Kelley, Tom Kelly, Emily Kurtz, Fan Yang, and Yiguang Zhang. (Received January 31, 2015)