1135-37-1622 Marco Antonio López* (marco.lopez@unt.edu). Dimension of shrinking target sets arising from nonautonomous dynamical systems.

For a dynamical system on a metric space X we define a shrinking target set consisting of those points $x \in X$ whose orbits hit a ball of shrinking radius infinitely often. In special cases, such sets arise from Diophantine approximation. One aspect of such sets that is often studied is their Hausdorff dimension. We will talk about how thermodynamic formalism can be applied to characterize the Hausdorff dimension of such sets for a certain class of nonautonomous iterated function systems. (Received September 23, 2017)