1100-37-317 Anushaya Mohapatra* (am87@rice.edu), TX, and William Ott (ott@math.uh.edu). Memory loss for nonequilibrium open dynamical systems.

We introduce a notion of conditional memory loss for nonequilibrium open dynamical systems. We show that this type of memory loss occurs at an exponential rate for nonequilibrium open systems generated by one-dimensional piecewise-differentiable expanding Lasota-Yorke maps. This result may be viewed as a prototype for time-dependent dynamical systems with holes. (Received February 10, 2014)