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**Chinmaya Gupta\*** (chinmaya@math.uh.edu), Department of Mathematics, University of Houston, Houston, TX 77204, and **William Ott** and **Andrei Torok**. *Memory loss for time-dependent piecewise expanding systems.*

We will show that given two probability measures absolutely continuous with respect to a reference measure, the quasi-Hölder distance between them (and therefore, the  $L^1$  distance between them) decreases exponentially under action by compositions of arbitrarily chosen (but fixed *a priori*) maps close to those that are both piecewise expanding and mixing in a certain sense. Thus, we will establish a counterpart of exponential decay of correlations for non-stationary systems. (Received September 03, 2013)