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Ji Li* (liji@math.msu.edu). *nonautonomous perturbation and chaotic behavior.*

Nonautonomous perturbation appears in many applications which could be periodic or non periodic. We study the kind without any periodicity, a sample path of a random force driven by stochastic process for instance. We show the existence of a generalized Smale Horseshoe in a 2-D phase space using the Silnikov type variable. (Received February 15, 2016)