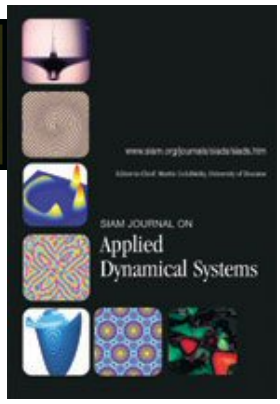

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Running Title	The cutoff phenomenon and mixing by chaotic maps
Keywords	Chaotic Mixing, Cutoff, Markov Chains
Corresponding Author	Matt West (University of Illinois at Urbana-Champaign)
Contributing Author	Tzuchen Liang
Abstract	We extend the definition of a cutoff from finite Markov chains to the evolution of probability distributions by the Perron-Frobenius operator of 1D maps. We prove that if the map has full shift symbolic dynamics then, for appropriately chosen initial distributions, such an evolution exhibits a total variation cutoff. Moreover, the initial distributions can be chosen so that the limiting evolution has the same normal shape as is found in many Markov chain problems.
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