

SIAM Journal on Applied Dynamical Systems

Home Author instructions Referee instructions Editorial policy Tips Logout

SAM JOURNAL ON Applied Dynamical Systems

To ensure proper functionality of this site, both JavaScript and Cookies must be enabled.

Submit manuscript - Step #3 of 4 (Receipt):

Manuscript # 083081

Please print and save this page for your records.

2 files received.

Once the files have been converted, you must approve the new PDF files before the submission is complete. If you do not approve the PDF files, your manuscript will **not** be submitted.

Manuscript #	083081
Current Stage	Waiting for Author Approval of Converted Files
Title	The cutoff phenomenon and mixing by chaotic maps
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.
Manuscript Type	Research Article
Submission Date	2011-04-14 00:50:26

Approve your uploaded files by pressing the "Continue" button at the bottom of this screen, and following the link with the red arrow on the next screen.

Continue





Copyright © 2010 The Society for Industrial and Applied Mathematics EJPress ® Version 5.0 Terms Of Service