1138-37-10   **J. Ding*** (`jiu.ding@usm.edu`), Department of Mathematics, University of Southern Mississippi, Hattiesburg, MS 39406, and **Congming Jin** and **Tulsi Upadhyay**. *A linear spline maximum entropy method for random maps.*

We develop a maximum entropy method for the computation of stationary densities of random maps, using linear splines. We give a convergence analysis and error estimates for the method, and some numerical experiments are also presented. (Received December 06, 2017)