
Exercises

(0.1) **Invariant Measures.** (Math, Complexity) (With Myers. [72])

Reading: Reference [47], Roderick V. Jensen and Christopher R. Myers, “Images of the critical points of nonlinear maps” **Physical Review A** **32**, 1222-1224 (1985).

Lioville’s theorem tells us that all available points in phase space are equally weighted when a hamiltonian system is averaged over all times. What happens for systems that evolve according to laws that are not hamiltonian?

steps, record n_{cycles} steps, and plot. After the routine is working, you