

HOMEWORK 12

Due date: April 23, 2020, 11:55PM.

Bibliography: Lessons 22-23

This final homework is a guided tour to some of the behavior encountered in the study of dynamical system.

Problems

Determine the local linearization, eigenvalue maps, and Poincaré sections of the following systems at two different parameter set values of your choice.

1. Duffing oscillator
2. Lorenz system