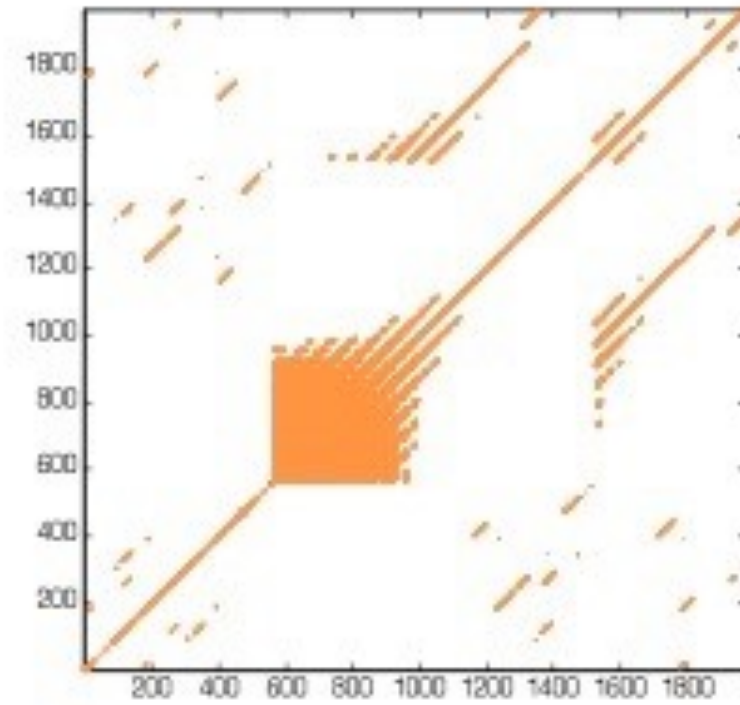
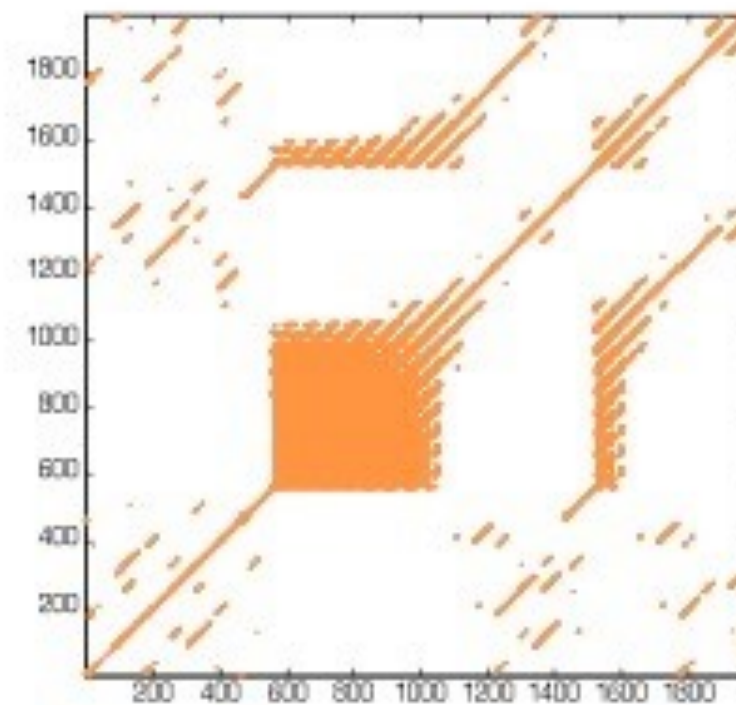


Note how the recurrence plot changes with changes in radius

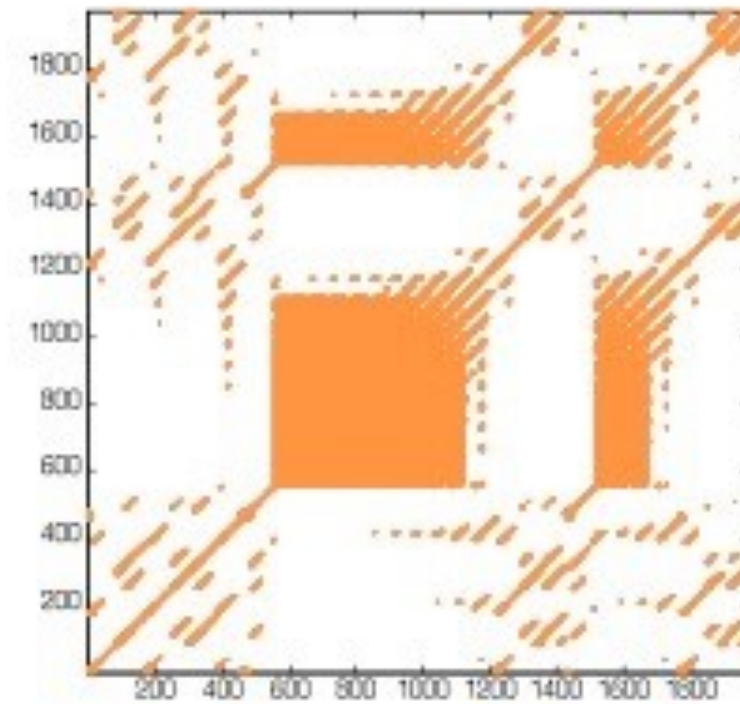
Radius = 3



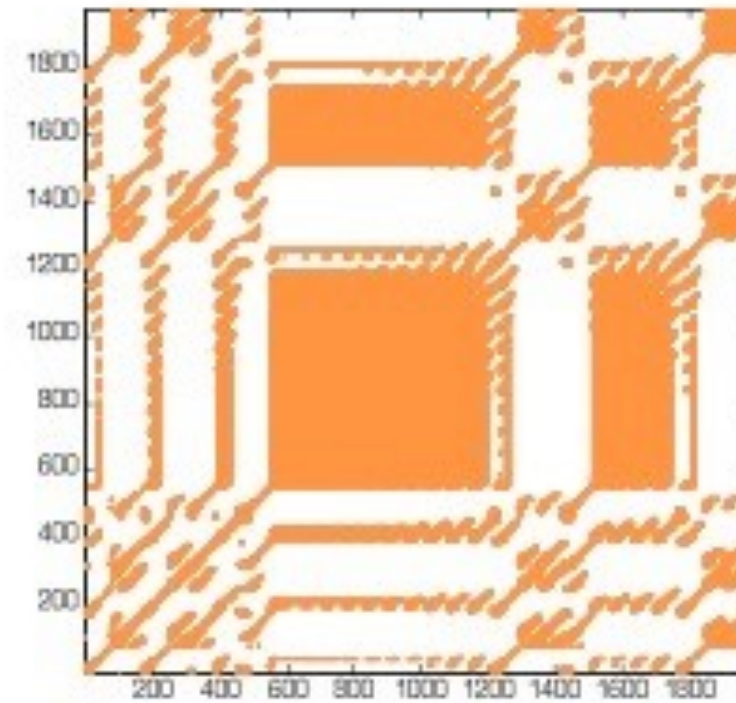
Radius = 5



Radius=10



Radius=20



Shockley 2007

Is there a prescription for picking your radius?

%DETERMINISM

Indexes how “patterned” the data are.

Does the system return to the same region of phase space for a longer period of time?

$$\%DET = \frac{\text{Number of recurrent points forming diagonal line}}{\text{Total recurrent points}} \times 100$$

Sine
%REC = 2.9
%DET = 99.8

White Noise
%REC = 2.9
%DET = 5.4

