IN·DEI·NOMINE·F

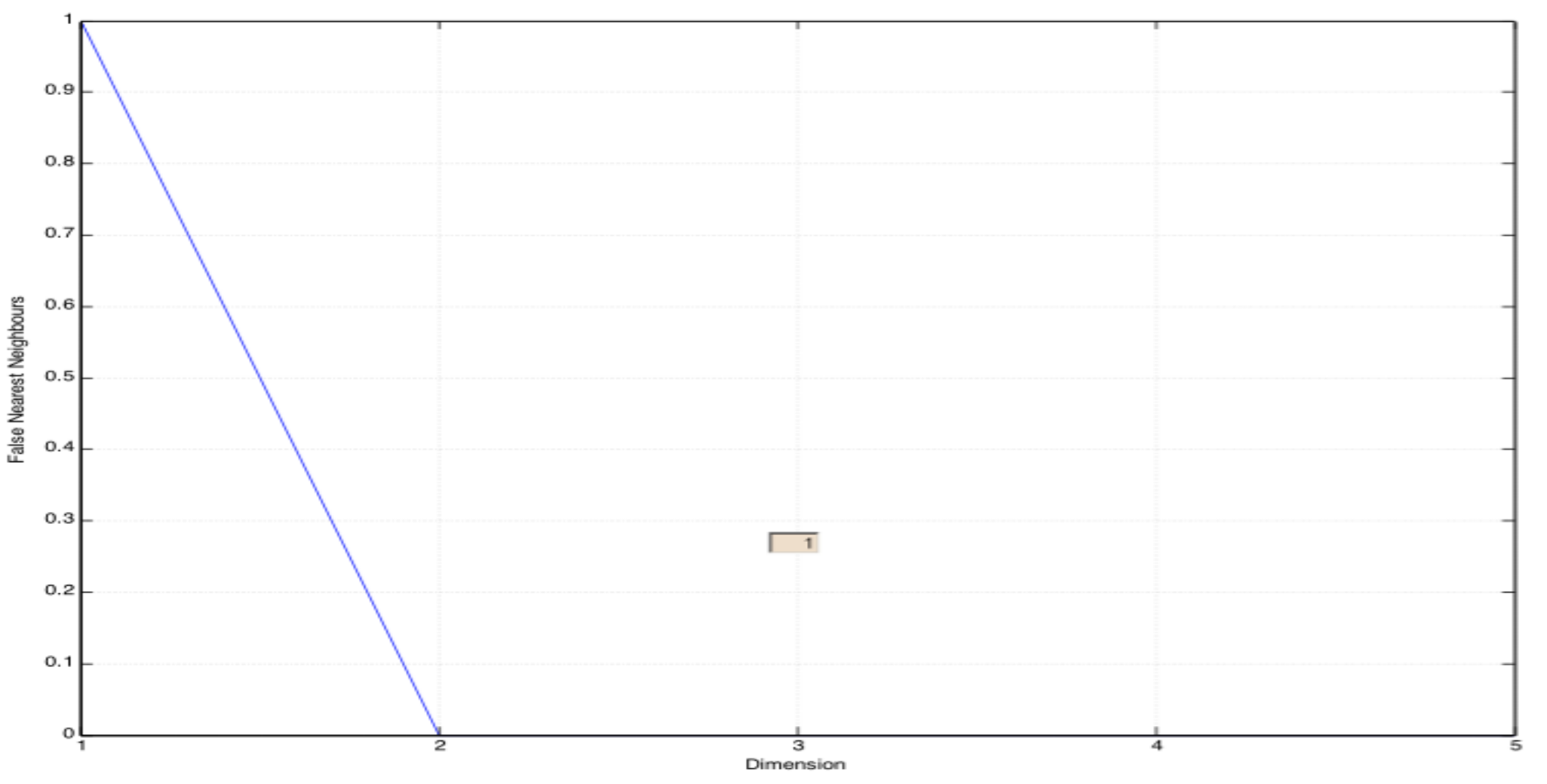
Radboud University Nijmegen

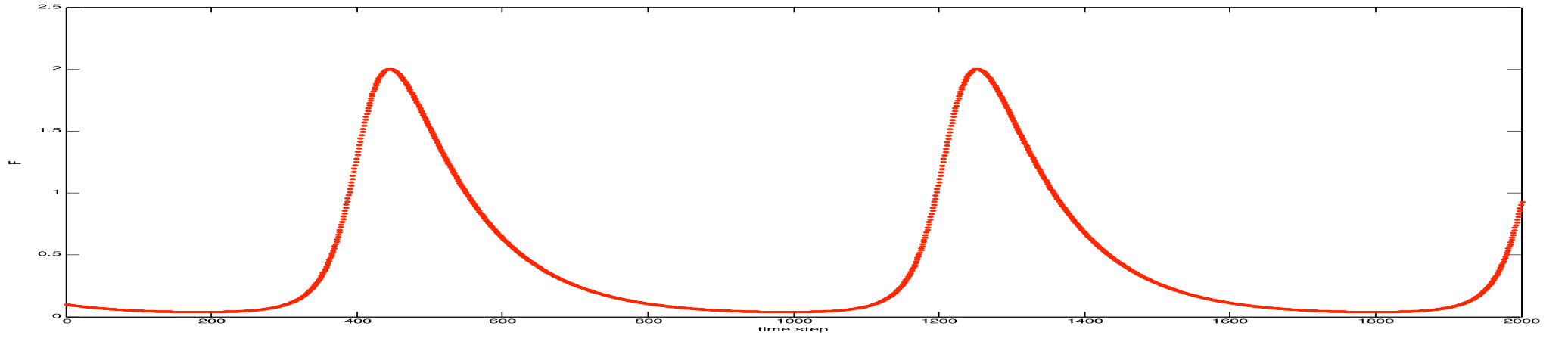
Behavioural Science Institute

Another familiar example: Predator-Prey dynamics

Embedding dimensions – False Nearest Neighbours Analysis

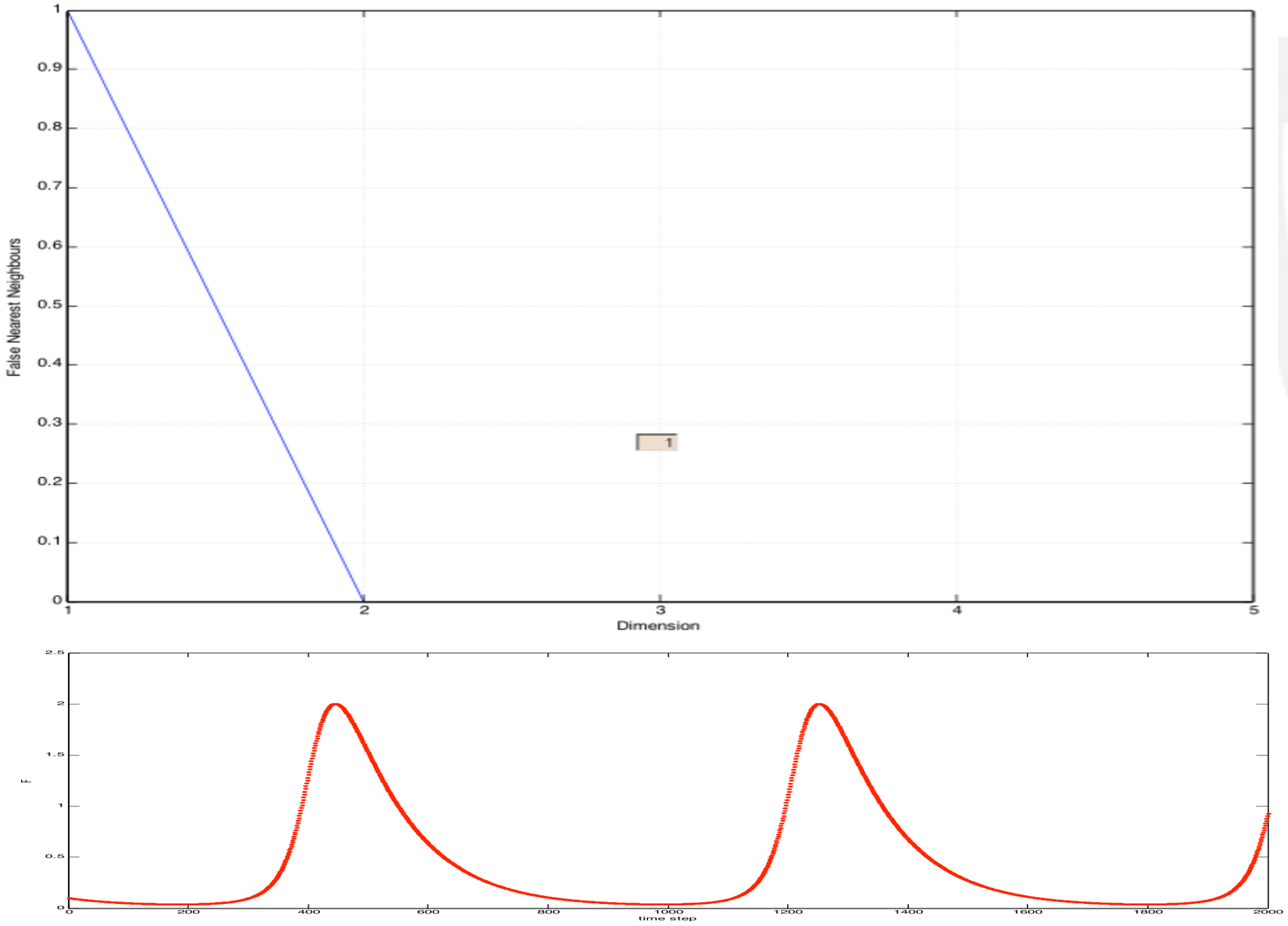
How many dimensions should we get??

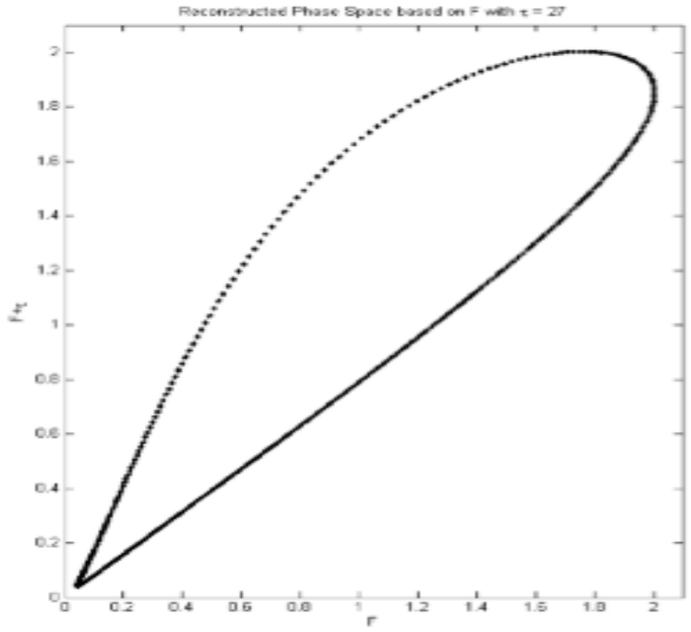
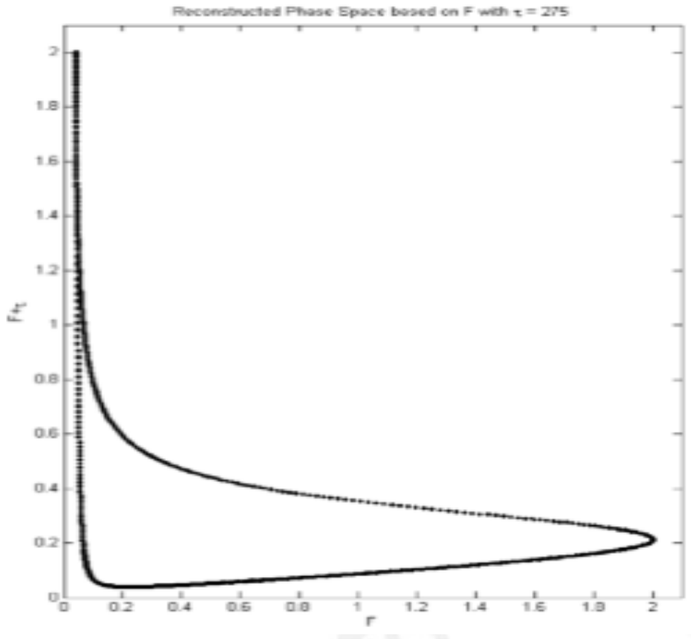
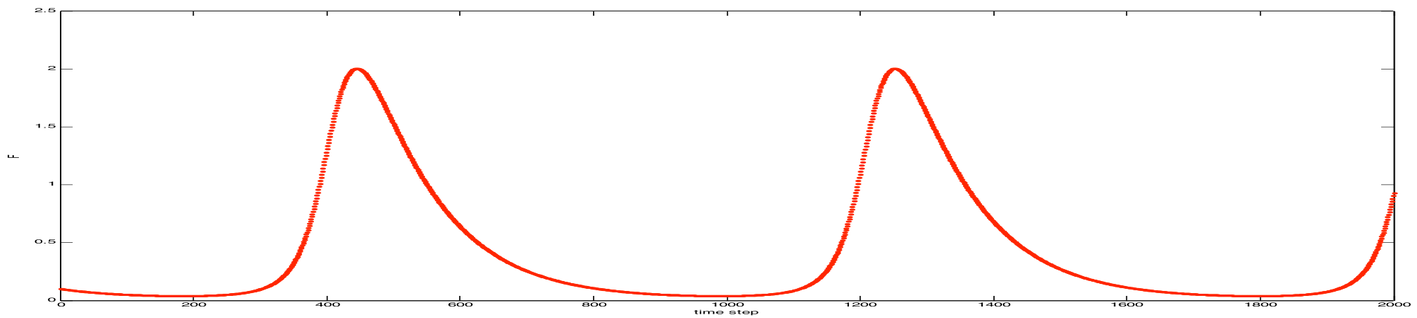

False Nearest Neighbours
Dimension
1
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
2
3
4
5
1


F
time step
0
0.5
1
1.5
2
2.5
0
200
400
600
800
1000
1200
1400
1600
1800
2000

45

Another familiar example: Predator-Prey dynamics



Another familiar example: Predator-Prey dynamics

Embedding lag = 27 / 275 Embedding dimensions = 2