

Homework 2

TIF150, Information theory for complex systems

Correlation complexity

Consider the process defined by the finite automaton below. When two arcs leave a node they have the same probability.

- a) What is the entropy s of this stochastic process?
- b) How long correlations are there, i.e., for which m are $k_m > 0$?
- c) Determine the correlation complexity η .

