A structure theorem for linear-growth complexity subshifts

Bastián Espinoza
Université de Picardie Jules Verne
Universidad de Chile

Abstract.

An idea that became unavoidable to study zero entropy symbolic dynamics is that the dynamical properties of a system induce in it a combinatorial structure. An old problem addressing this intuition is finding a structure theorem for linear-growth complexity subshifts using the S-adic formalism. It is known as the S-adic conjecture and motivated several influential results in the theory. In this presentation, I will present an S-adic structure for this class and show how this provides a unified framework and simplified proofs of several known results.