On entropy and intrinsic ergodicity of coded subshifts

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Abstract

Any coded subshift X defined by a set C of code words contains a subshift, which we call L, consisting of limits of single code words. We show that when C satisfies a unique decomposition property, the topological entropy $h(X)$ of X is determined completely by $h(L)$ and the number of code words of each length. More specifically, we show that $h(X) = h(L)$ exactly when a certain infinite series is less than or equal to 1, and when that series is greater than 1, we give a formula for $h(X_C)$. In the latter case, an immediate corollary (using results of Climenhaga and Thompson) is that X has a unique measure of maximal entropy. The talk is based on the preprint by Ronnie Pavlov under the same title [arXiv:1803.05966].