RONNIE PAVLOV, University of Denver

Limiting Entropy and Independence Entropy of d-dimensional shift spaces II

We present further work on the relationship between the concepts of independence entropy ($h_{ind}(X)$) and limiting d-dimensional entropy ($h_\infty(X)$) presented in Brian Marcus's talk. In particular, we prove that $h_{ind}(X) = h_\infty(X)$ whenever X is a nearest-neighbor shift of finite type. As a corollary, this shows that a simple closed form can be found for the limiting entropy $h_\infty(X)$ when X is a nearest-neighbor SFT. We also show that if $h_{ind}(X) = h_\infty(X)$ for all SFTs, then the same is true for general shift spaces.