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Title: Fundamental Theorems for Poincaré complexity via recurrence

Abstract:

We introduce the Poincaré recurrence of a set function. We present the fundamental theorems studies in statistics for this quantity, namely almost sure convergence, fluctuations and large deviations.

We show how this function measure the complexity of the evolution system. We relate to entropies and Lempel-Ziv function. Some examples are presented.