

# Stable Sets in $Z^n$ -Systems with Positive Entropy

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Abstract:

In this talk, the chaoticity appearing in the  $Z^n_+$ -stable sets of a  $Z^n$ -dynamical system with positive entropy is investigated. It is shown that in any positive entropy  $Z^n$ -system, there is a measure theoretically rather big set such that the  $Z^n$ -stable set of any point from the set contains a Mycielski Li-Yorke chaotic set under  $Z^n_-$ .