

Topological Mixing and UPE

D. Darji, A Illanes, V. Martínez-de-la -Vega
and J. Martínez-Montejano

In this talk we study relationships between topological mixing and uniform positive entropy (UPE). For a compact metric space X with an open subset homeomorphic to the open interval $(0, 1)$ and a mapping $f : X \rightarrow X$ we show that the property of f weakly mixing and having the m-UPE property are equivalent. We show the same when X is a dendrite and f is an open mapping.

Affiliation

Verónica Martínez de la Vega,
Instituto de Matemáticas U.N.A.M (Mexico), vmvm@matem.unam.mx