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Title:

## Non-existence of measure which minimizes the unstable Lyapunov exponent for a family of non-uniformly hyperbolic horseshoes

Abstract:

We study the existence and uniqueness of the equilibrium state for  $t = t \leq 0$  and for the class of non-uniformly hyperbolic Horseshoes which was introduced by I. Rios. We describe the two possibilities for the graph of t = 0, where CP(t), where CP(t) is the pressure for t = 0.

We prove that these maps do not have a measure which minimizes the unstable Lyapunov exponent, even if the unique equilibrium state  $mu_{t}\$  converges when \$t\$ increases.