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*On the Continuity of the Topological Entropy of Non-autonomous Dynamical Systems*

Let  $M$  be a compact Riemannian manifold. The set  $F^r(M)$  consisting of sequences  $(f_i)_{i \in \mathbb{Z}}$  of  $C^r$ -diffeomorphisms on  $M$  can be endowed with the compact topology or with the strong topology. A notion of topological entropy is given for these sequences. I will prove this entropy is discontinuous on each sequence if we consider the compact topology on  $F^r(M)$ . On the other hand, if  $r \geq 1$  and we consider the strong topology on  $F^r(M)$ , this entropy is a continuous map.