

## **The entropy spectrum of Lyapunov exponents in non-hyperbolic skew-products.**

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### **Abstract:**

We consider transitive skew-products dynamics containing (and thus mixing) hyperbolic sets of different indices. Jointly motivated by the examples of robustly transitive diffeomorphisms, dynamics arising in the unfolding of heterodimensional cycles and porcupine-like horseshoes, we identify some abstract properties that enable us to describe the topological entropy of level sets for central Lyapunov exponents.

One of the ingredients is a restricted variational principle to describe the topological entropy of certain level sets taking in consideration measures in a certain subset of hyperbolic measures only.