

Stability of hyperbolic measures

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For most partially hyperbolic diffeomorphism having 1-dimensional center bundle and center foliation that forms a circle bundle A . Tahzibi and J. Yang proved that ergodic measures with large entropy are hyperbolic.

In this talk we will discuss a partial extension of their result to partially hyperbolic diffeomorphisms with 2-dimensional center bundle. The main tool is the study of u-states associated to the derivative cocycle through a characterization that involves the entropy along the expanding foliation. This is a joint work with Chao Liang (CUFE) and Jiagang Yang (UFF).