



Seminário de Sistemas Dinâmicos da UFF

GEOMETRIC STRUCTURE FOR MAXIMAL MEASURES

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Resumo

This is a joint work with R.Ures and M.Viana.

We will study the maximal measures of diffeomorphisms which are partially hyperbolic with 1–dimensional center direction, and whose center foliation forms a circle bundle. We show that for most of such diffeomorphisms, the maximal measures can be identified by skeleton, a set of finite saddles.

As an application of this theory, we will show that, any partially hyperbolic diffeomorphism over a 3–dimensional Nil-manifold different to T^3 , has at most two ergodic maximal measures. Moreover, these ergodic maximal measures vary in a continuous way.