

A conservative dilemma: to be or not to be (hyperbolic)

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In dimension three, we present three conservative partially hyperbolic settings (derived from Anosov systems, time one-maps of geodesic flows on negatively curved surfaces, and skew-product with circle fibers) where the following dichotomy holds: the diffeomorphism is either Anosov or it supports and (ergodic) nonhyperbolic measure. Join work with J. Yang (UFF, Niterói, Brazil) J. Zhang (Beihang, Beijing, China)
