

# UNIQUENESS OF SRB MEASURE FOR TRANSITIVE SURFACE DIFFEOMORPHISMS

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We say that an ergodic invariant measure is an SRB measure if it has positive entropy and satisfies Pesin's entropy formula. It will be shown that if a surface diffeomorphism is transitive then there is at most one SRB measure and moreover if such a measure exists then there is only one nontrivial homoclinic class. This is joint work with M. A. Rodriguez Hertz, R. Ures and A. Tahzibi.