

Existence of physical measures for smooth surface diffeomorphisms

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We prove a conjecture of Marcelo, in the case of smooth surface diffeomorphisms: if the upper Lyapunov exponent is positive on a set of points with non-zero area, then there exists an SRB measure. This is a joint work with Jérôme Buzzi and Omri Sarig. David Burguet has given another proof.