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Unique equilibrium states for some robustly transitive systems.

Examples of robustly transitive systems that are not uniformly hyperbolic were given by Mañé, and later by Bonatti and Viana. Recently it has been shown by Buzzi, Fisher, Sambarino, and Vásquez that these examples have unique measures of maximal entropy. We show that for a certain class of Hölder continuous potential functions these systems have unique equilibrium states. This class includes the geometric potentials and yields the SRB measure as an equilibrium state for these systems. The techniques are quite general and have applications to other classes of non-uniformly hyperbolic systems. (Received September 11, 2014)