Thermodynamics of the Katok Map

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I describe thermodynamical formalism for the non-uniformly hyperbolic map of the two dimensional torus known as the Katok map. It is a slowdown of a linear Anosov map near the origin and it is historically the firs example of a systems with non-zero Lyapunov exponents. I demonstrate existence and uniqueness and some ergodic properties of equilibrium measures for the special geometric potential. This is based on the joint work with Samuel Senti and Ke Zhang.