INDUCING SCHEMES WITH FINITE WEIGHTED COMPLEXITY

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Abstract： We consider a measurable map of a compact metric space which admits an inducing scheme. Under the finite weighted complexity condition, we establish a thermodynamic formalism for a parameter family of potentials $\varphi+t\psi$ in an interval containing $t=0$. Furthermore, if there is a generating partition compatible to the inducing scheme, we show that all ergodic invariant measures with sufficiently large pressure are liftable. Our results are applicable to a class of chaotic billiards. This is a joint work with Fang Wang and Hong-Kun Zhang.