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*Equilibrium states and  $\bar{d}$ -continuity beyond subshifts of finite type.*

The concept of  $\bar{d}$ -distance on the space of measures on a shift space was first introduced by Ornstein to study the isomorphism problem for Bernoulli shifts. Many ergodic properties behave well with respect to this metric. For instance, Ornstein proved that the set of processes which are measure theoretically isomorphic to Bernoulli shifts is  $\bar{d}$ -closed. Coelho and Quas showed that the map that sends a potential  $\phi$  to its equilibrium state  $\mu_\phi$  is continuous with respect to the  $\bar{d}$ -metric on the space of shift invariant probability measures and a suitable metric on the space of Hölder continuous potentials for a mixing subshift of finite type. A natural question that arises is whether a similar result holds for shift spaces that are not SFTs. In this talk, we will discuss an extension of the result for countable-state Markov shifts. We will further describe how we can get a similar result for  $\beta$ -shifts. This is a work in progress. (Received September 17, 2021)