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Thermodynamic formalism for a certain class of subadditive sequences on countable Markov shifts

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In this talk, we consider a class of asymptotically subadditive sequences on countable Markov shifts. This type of sequences appears naturally in the theory of factors of Gibbs measures and also in some dimension problems of non conformal maps.
We show that the type of sequences we consider
generalizes almost additive sequences under certain finiteness conditions on the space. We define the topological pressure, show the variational principle and study the existence of Gibbs equilibrium states for this type of sequences. Finally
we give an application of the results to the theory of
factors of Gibbs measures. The results here are special cases of the results obtained in the paper by Iommi, Lacalle and Yayama.

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