

Zero temperature limits of equilibrium states for subadditive potentials

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In this talk we discuss ergodic optimization problems for subadditive sequences of functions on a topological dynamical system. We show that for $t \rightarrow \infty$ any accumulation point of a family of equilibrium states is a maximizing measure. We show that the Lyapunov exponent and entropy of equilibrium states converges in the limit $t \rightarrow \infty$ to the maximum Lyapunov exponent and entropy of maximizing measures.

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References

- [1] R. Mohammadpour: *Zero temperature limits of equilibrium states for subadditive potentials and approximation of the maximal Lyapunov exponent*. Topol. Methods Nonlinear Anal.. **55(2)** (2020) 697–710.