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Algebraic entropy for modules

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Given an arbitrary ring R , we introduce the notion of subadditive invariant in the category of left R -modules, and the related notion of algebraic entropy for endomorphisms of modules. We illustrate the connections with the classic algebraic entropy for Abelian groups and with the measure-theoretic and the topological entropies. Some results on the rank-entropy of endomorphisms of torsionfree modules over commutative integral domains are also presented.