Algebraic entropy of semigroup actions

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We discuss the algebraic entropy of semigroup actions on abelian groups via group endomorphisms. The semigroups in question will be either finitely generated or amenable and cancellative. We discuss two definitions which coincide for N-actions or Z-actions, but are distinct already in the case of N^d-actions or Z^d-actions, for any $d > 1$.

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