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The K-theory of abelian monoid sets

The K-theory of sets equipped with a group action is well understood. Given a finite abelian group A, the K-theory theory of A-sets splits as a wedge of classifying spaces if groups A/H, for $H \leq A$. When A is ab abelian monoid, however, the case becomes much more complicated, because the orbits of an element of a monoid set are neither disjoint nor semisimple. This talk will explain the resolutions to these difficulties and show that the K-theory of abelian monoid sets also splits as a wedge of classifying spaces.