

## Preview

Let  $A$  be a finite dimensional algebra. Objects in  $D^b(A\text{-mod})$  can be seen as complexes of modules, as complexes of projective modules - identifying, for instance, a module with any of its projective resolutions - and in different ways, as we will see in this section.

We will associate with  $A$  an infinite dimensional algebra (without unit)  $\hat{A}$ , the repetitive algebra of  $A$ , and compare  $D^b(A\text{-mod})$  with the stable category  $\hat{A}\text{-mod}$ .

In this way, we will also see new connections between stable and derived categories.