

Theorem 0.1. *Let \mathcal{A} be an $\mathcal{Ab5}$ -category, U an object of \mathcal{A} , and*

$$A = \text{End}_{\mathcal{A}}(U)$$

; also, let $S : \mathcal{A} \rightarrow \text{Mod}A^0$ be the functor defined by

$$S(X) = \text{Hom}_{\mathcal{A}}(U, X),$$

and T its left adjoint. Then, the following two statements are equivalent:

- 1. U is a generator of \mathcal{A} ;*
- 2. S is full and faithful and T is exact.*