

1 Construction

Definition 1 (Derived category). Let \mathbf{A} be an abelian category. The *derived category* $\mathbf{D}(\mathbf{A})$ is defined by the following universal property: for any $\mathcal{H}om \mathcal{H}om Ext \ell abcd p k k . \mathfrak{A}, ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz \mathfrak{A}BCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz. 1$