II. ABELIAN CATEGORIES

Def: \( \text{Hom}_C(X,Y) \in \text{Ab} \)
\( \forall X,Y \in C \)

Def: \( \exists x,y \in C \) biproduct
\( \forall x,y \in C \)

Def: \( \exists 0 \in C \) zero object

Def: \( \exists \) cokernels & kernels

Def: \( \exists \) monos are kernels & cokernels

Def: \( \exists \) pushouts & pullbacks

Def: \( \exists \) coequalizers & equalizers

Take & a category

Preadditive category

Additive category

Abelian category

Keywords: additive category, abelian category, biproduct of objects, coequalizer of morphisms, cokernel, equalizer of morphisms, kernel, preadditive category, pullback of morphisms, pushout of morphisms


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