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Relative homological algebra. By means of the class of admissible

exact sequences, the class of \mathcal{P} -projective (respectively, \mathcal{I} -injective) objects is defined as the class of those objects (respectively, \mathcal{I}) for which the functor (respectively, \mathcal{P}) is exact on the admissible short exact sequences. Any projective object of \mathcal{A} is \mathcal{P} -projective,...

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One of the basic concepts of homological algebra. Let \mathcal{A} be an Abelian category. A graded object is a sequence of objects in \mathcal{A} . A sequence of morphisms is called a morphism of graded objects. One defines the object by setting $d_n = 0$. A morphism of graded objects is called a morphism of degree n from \mathcal{A} into \mathcal{A} .

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Then: a) if \mathcal{P} is the class of all projective left \mathcal{A} -modules, then the corresponding homological dimension of \mathcal{A} is also called the projective dimension and is denoted by $\text{pd } \mathcal{A}$; b) if \mathcal{F} is the class of all flat left \mathcal{A} -modules, then the corresponding homological dimension of \mathcal{A} is called the weak dimension and is denoted by $\text{wd } \mathcal{A}$.

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With respect to general linear maps, linear endomorphisms and square matrices have some specific properties that make their study an important part of linear algebra, which is used in many parts of mathematics, including geometric transformations, coordinate changes, quadratic forms, and many other part of mathematics.

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projective dimension and is denoted by pd ; b) if \mathcal{C} is the class of all flat left R -modules, then the corresponding homological dimension of R is called the weak dimension and is denoted by $\text{wdim } R$.

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