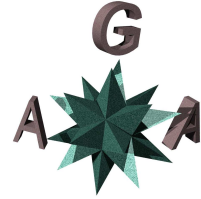




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TTF in functor categories

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The functor category of an associative ring is the category of additive covariant functors from finitely presented left R -modules to abelian groups. There is a bijection between definable classes of right R -modules and hereditary torsion pairs of finite type in the functor category. It is now known that every tilting class is a definable class. Among the hereditary torsion pairs of finite type in the functor category, we characterize the ones associated to tilting torsion classes. TTF triples (X, Y, Z) are triples of categories such that (X, Y) and (Y, Z) are torsion pairs. We characterize the hereditary torsion pairs of finite type in the functor category which give rise to TTF triples.