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## Documents

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**Categories with strong monomorphic strong coimages**

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**Abstract**

Let  $SE(C)$  (respectively,  $SM(C)$ ) be the subcategory of a category  $C$  with the same objects and whose morphisms are strong epimorphisms (respectively, strong monomorphisms) of  $C$ . In this paper, we give conditions in some categories  $C$  for an object  $X$  of  $\text{pro-}C$  to be isomorphic to an object of  $\text{pro-}SE(C)$  (respectively,  $\text{pro-}SM(C)$ ). As an application, we give conditions under which objects of  $\text{pro-}C$  are stable.

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