extremal monomorphism

Canonical name	ExtremalMonomorphism
Date of creation	2013-03-22 16:03:44
Last modified on	2013-03-22 16:03:44
Owner	kompik (10588)
Last modified by	kompik (10588)
Numerical id	6
Author	kompik (10588)
Entry type	Definition
Classification	msc 18A05
Related topic	PropertiesOfRegularAndExtremalMonomorphisms
Related topic	Monic
Defines	extremal epimorphism

Definition 1. *A monomorphism m in a category $\mathcal{A}$ is called* extremal *if the following holds: Whenever $m = f \circ e$, where e is an epimorphism, then e is an isomorphism.*

http://planetmath.org/DualityPrincipleDual notion: An epimorphism e is called extremal *if the following holds: Whenever $e = m \circ f$, with m a monomorphism, then m is an isomorphism.*