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Hereditariness of closure operators and injectivity

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Abstract: A notion of hereditariness of a closure operator with respect to a class of monomorphisms is introduced. Let C be a regular closure operator induced by a subcategory \mathcal{A} . It is shown that, if every object of \mathcal{A} is a subobject of an \mathcal{A} -object which is injective with respect to a given class of monomorphisms, then the closure operator C is hereditary with respect to that class of monomorphisms.

Keywords: closure operator, hereditary closure operator, injective object, factorization pair

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