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Sultan Eylem Toksoy* (eylem.toksoy@gmail.com), Ankara, Turkey. *On Copure-injectively Poor Modules.*

There is a wide research on the injectivity of modules involving notions derived from relative injectivity. The recent trend is to measure how close a module being injective; one of the notion is a module which is called as a poor module. Poor modules are those modules whose domain of injectivity is as small as possible. In a similar vien, another interesting family of modules has defined in our research; the copure-injectively poor modules are those modules whose copure-injectivity domain is as small as possible. In this work we study properties of copure-injectively poor modules. Although we do not know whether copure-injectively poor modules exist over arbitrary rings, rings over which every right R -module is copure-injectively poor is shown to be right CDS rings. Rings on which poor modules and copi-poor modules are the same are characterized. Also examples showing that neither condition being a copure-injectively poor module nor being a poor module imply the other in general are given. A copure-injectively poor module need not be pure-injectively poor in general and conversely. We prove that over commutative (co-)noetherian rings a module is pi-poor if and only if it is copi-poor. Therefore it is obtained that copi-poor abelian groups coincide with pi-poor Abelian groups. (Received September 09, 2019)