

\bigoplus_{ss} -SUPPLEMENTED MODULES

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ABSTRACT. Let R be a ring and M be an R -module. $Soc_s(M)$ will indicate the sum of all simple submodules of M that are small in M . A module M is called *ss-supplemented* if for every submodule U of M has a *ss-supplement* V in M , that is, $U + V = M$ and $U \cap V \subseteq Soc_s(V)$ from [5]. In this present paper, we defined the concept of \bigoplus_{ss} -supplemented modules and obtain various properties of \bigoplus_{ss} -supplemented modules. We study on characterizations of some rings via these modules.

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