

عنوان مقاله:

CLASSICAL PRIME RADICAL OF MODULES AND A GENERATION OF BEAR'S LOWER NILRADICAL FOR MODULES

محل انتشار:

سی و هشتمین کنفرانس ریاضی ایران (سال: 1386)

تعداد صفحات اصل مقاله: 3

نویسنده:

M. BEHBOODI - Department of Mathematical Science University of Technology, Isfahan, Iran

خلاصه مقاله:

Let M be a left R -module. A proper submodule P of M is called classical prime if for all ideals $A, B \subseteq R$ and for all submodules $N \subseteq M$, $ABN \subseteq P$ implies that $AN \subseteq P$ or $BN \subseteq P$. we generalize the Baer-McCoy radical for a modul [denoted by $cl.adR(M)$] and Baers lower nilradical for a module [denoted by $Nil_8(RM)$]. for a module RM , $cl.radR(M)$ is defined to be the intersection of all classical prime submodules of M and $Nil^*(RM)$ is defined to be the set of all strongly nilpotent elements of M (defined later). It is shown that, for any projective R -module M , $cl.radR(M) = Nil^*(RM)$ and, for any module M over a left Artinian ring R , $cl.radR(M) = Rad(M) = Jac(R)M$. In Particular, if R is a commutative Noetherian dimian with $dim(R) \leq 1$, then for any module M , we have $cl.radR(M) = Nil^*(RM)$. we show that over a left bounded prime left Goldie ring, the study of Baer-McCoy radicals of general modules reduces to that of torsion modulse. Moreover, over an FBN prime ring R with $dim(R) < 1$, every semiprime submodule of any module is an intersection of classical prim submodules

کلمات کلیدی:

Classical prime module, Baer-McCoy radical, Baers lower nileradical

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/56984>

