Year: 2013 | **Vol.: 82** | **Fasc.: 2**

Title: On prime radical of submodules

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Let R be a commutative ring with identity. A proper submodule N of an R-module M is called *P-prime* [resp. *P-primary*], if for each $r \in R$ and $a \in M$, $ra \in N$ implies that $a \in N$ or $r \in P = (N : M)$ [resp. $r \in P = \sqrt{(N : M)}$]. The intersection of all prime submodules of M containing a submodule B denoted by $\mathrm{rad}(B)$ is called the radical of B. We will try to formulate and find the forms of elements of $\mathrm{rad}(B)$, and we study when the radicals of primary submodules are prime.

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