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Tony Se* (tse@math.ku.edu). *Asymptotic Stability of Associated Primes of $F(M/(I^n M))$* . Preliminary report.

Let R be a commutative Noetherian ring and F a functor from the category of finitely generated R -modules to the category of (finitely generated) R -modules. Let $I \subseteq R$ be an ideal and M a finitely generated R -module. Brodmann has shown that the sets of associated primes $\text{Ass}_R M/(I^n M)$ become independent of n for large n . We will discuss some results on whether or not the same holds for the sets $\text{Ass}_R F(M/(I^n M))$. (Received January 30, 2014)