1126-13-259   **Tony Se*** (`ttse@olemiss.edu`). *Covariant Functors and Asymptotic Stability of Associated Primes.*

Let R be a commutative Noetherian ring, I an ideal of R and M a finitely generated R-module. M. Brodmann showed that the sets of associated primes $\mathrm{Ass}_R(M/I^n M)$ stabilize for large n. Now let F be a covariant functor. We will investigate when the sets of associated primes $\mathrm{Ass}_R F(M/I^n M)$ stabilize for large n and when they do not. (Received January 16, 2017)