

Persistence property of squarefree monomial ideals.
S. Selvaraja, IIT Madras.

Abstract: Let A be a Noetherian ring and I an ideal of A . Brodmann showed that the set of associated primes of I^s stabilizes for large s . The ideal is said to satisfy the persistence property if $\text{Ass}(A/I^s)$ is contained in $\text{Ass}(A/I^{s+1})$ for all $s \geq 1$. Associated primes of powers of ideals have been extensively investigated in the literature. Even for monomial ideals in a polynomial ring, it is difficult to classify which ideals possess the persistence property. In this talk the persistence property of squarefree monomial ideals will be discussed.

Pre-requisites :
Basic commutative algebra, familiarity with advanced concepts will be helpful.