

Lexsegment ideals in polynomial rings-II.

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Abstract: I will discuss about the lexsegment ideals in polynomial rings, particularly in $K[x, y]$. We will prove that if I is a lexsegment ideal in $K[x, y]$, then the Rees algebra of I is Cohen-Macaulay if and only if the associated graded ring is Cohen-Macaulay if and only if the fiber cone is Cohen-Macaulay.

Pre-requisites :

Familiarity with ideas in the previous talk.