

Commutative Algebra Seminar

Lech Conjecture: an overview

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Abstract: In 1960, Lech conjectured that, if $R \rightarrow S$ is a flat local map between noetherian local rings, then the Hilbert-Samuel multiplicity of R is less than or equal to the one of S . This conjecture has been open in dimension 3 or higher since then. The purpose of this talk is to give an overview of this conjecture, especially the recent breakthrough made by Linqun Ma in dimension 3.

Monday, September 26 at 2:00 PM in SEO 427