

1117-13-219

Anurag K. Singh* (singh@math.utah.edu). *Maps from Ext modules to local cohomology modules*. Preliminary report.

We will discuss the injectivity of the natural maps from Ext modules to the corresponding local cohomology modules, in the context of a question of Eisenbud, Mustata, and Stillman. This has connections with the cohomology of thickenings of projective varieties, and leads to a version of the Kodaira vanishing theorem for these thickenings.

The talk is based on work in progress with Bhatt, Blickle, Lyubeznik, and Zhang. (Received January 14, 2016)