

1106-18-2331

Denise A. Rangel Tracy* (detracy@syr.edu). *On Modules with an Upper Triangular Presentation Matrix.*

In this talk we will investigate presentation matrices of totally reflexive modules over commutative local rings with the cube of the maximal ideal equaling zero. Totally reflexive modules give rise to complete resolutions, a “doubly ” infinite exact complex of finitely generated free modules. We will give a necessary and sufficient condition for when each differential in such a complex can be simultaneously represented by an upper triangular matrix. (Received September 16, 2014)