

ALGEBRAIC GEOMETRY AND COMMUTATIVE ALGEBRA SEMINAR

Speaker: Hunter Simper
Purdue University



Date: Tuesday, October 11, 2022

Time: 5:00 PM

Location: 258 Hurley Hall

Zoom URL: NA

Lecture Title:

Local Cohomology Modules of Thickenings of Ideals of Maximal Minors

Abstract

Let R be the ring of polynomial functions in mn variables with coefficients in \mathbb{C} , where $m > n$. Set X to be the matrix in these variables and I the ideal of maximal minors of this matrix. I will discuss the R -module structure of $\text{Ext}_R^i(R/I^t, R)$ and $H_m^{mn-i}(R)$.