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Jenny R Kenkel* (kenkel@math.utah.edu), Salt Lake City, UT 84102. *Local Cohomology of Thickenings*. Preliminary report.

Abstract: Let k be a field, and consider an $m \times n$ matrix X , whose entries are independent indeterminates over k . Let $R = k[X]$, and set I_n to be the ideal generated by the size n minors of X , and consider the residue class rings, R/I_n , known as determinantal rings. I will discuss local cohomology of the thickenings R/I_n^t in both characteristic 0 and p , and how an interesting calculation of such a cohomology module reduces to a calculation over a hypersurface. (Received February 06, 2018)