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*Local cohomology of determinantal ideals over the integers.*

In joint work with Gennady Lyubeznik and Anurag Singh we investigate local cohomology of the ideal of  $k$ -minors of an  $m$ -by- $n$  matrix of indeterminates over the integers. This is interesting since the behavior over fields of characteristic zero differs wildly from the finite characteristic case, and the integers tie both cases together. (Received August 14, 2014)