

1096-13-377

Irena Peeva*, irena@math.cornell.edu, and **David Eisenbud**, de@msri.org. *Applications of CI Matrix Factorizations*. Preliminary report.

Matrix factorizations of a hypersurface yield a description of the asymptotic structure of minimal free resolutions over the hypersurface. We have introduced a new functorial concept of matrix factorizations for complete intersections which allows us to describe the asymptotic structure of minimal free resolutions over complete intersections. This talk will discuss applications of such matrix factorizations. (Received August 31, 2013)