## 1151-13-227 Eric Ottman\* (ejosma@rit.edu). Homology over a complete intersection ring via the generic hypersurface. Preliminary report.

We study homological properties and constructions for modules over a complete intersection ring  $Q/(f_1, \ldots, f_c)$  by way of the related generic hypersurface ring  $Q[T_1, \ldots, T_c]/(f_1T_1 + \cdots + f_cT_c)$ . The advantage of this approach is that over a hypersurface free resolutions are eventually 2-periodic, given by matrix factorizations, and are thus relatively easy to understand. In particular, we will discuss the relationship between Tor groups over these rings, inspired by recent work of Bergh and Jorgensen, and building on cohomological results in a 2015 paper of Burke and Walker. (Received August 19, 2019)