

1160-13-338

Claudia Miller, Hamid Rahmati* (hrahmati2@unl.edu), **Janet Striuli** and **Zheng Yang**.

Weak Complete intersection ideals.

We introduce the notion of weak complete intersection ideals; these are the ideals with the property that every differential in their minimal free resolution can be represented by a matrix whose entries are in the ideal itself. We provide a family of these ideals and present some applications. We also discuss algebra structures on free resolutions of such ideals. This talk is based on joint work with Janet Striuli and Zheng Yang and with Claudia Miller and Zheng Yang. (Received August 11, 2020)