1176-13-93   **Luigi Ferraro*** (`lferraro@ttu.edu`) and **Alexis Hardesty**. *A DG Algebra resolution of trimmings of pfaffian ideals.*

Let R be a regular local ring of dimension 3 with unique maximal ideal $\mathfrak{m}$. Let I be a Gorenstein ideal of R of grade 3. Buchsbaum and Eisenbud proved that there is a skew-symmetric matrix of odd size such that I is generated by the sub-maximal pfaffians of this matrix. Let J be the ideal obtained by multiplying some of the pfaffian generators of I by $\mathfrak{m}$; we say that J is a trimming of I. In this talk we construct an explicit free resolution of R/J with a DG algebra structure. Our work builds upon a recent paper of Vandebogert. We use our DG algebra resolution to prove that recent conjectures of Christensen, Veliche and Weyman on trimmings of ideals of class **G** hold true in this context. (Received January 15, 2022)