1161-16-189 Luigi Ferraro^{*} (lferraro[®]ttu.edu), Frank Moore and Desiree Martin. The Taylor Resolution over a Skew Polynomial Ring.

Abstract: Let I be a monomial ideal in the polynomial ring $R = k[x_1, \ldots, x_n]$ over a field k. In her thesis, Taylor introduced a complex which provides a multi-graded free resolution for R/I as an R-module. Later, Gemeda provided a differential graded structure on Taylor's complex. We generalize each of these results to monomial ideals in a skew polynomial ring. (Received August 17, 2020)