## 1126-13-148Nicholas Baeth, Michael Axtell and Joe Stickles\* (jstickles@millikin.edu).Factorizations in self-idealizations of UFRs.

The self-idealization of a commutative ring R is isomorphic to the ring  $R[x]/(x^2)$  or, equivalently, the ring of uppertriangular Toeplitz matrices, T(R), over a ring R. Recently, Chang and Smertnig characterized the sets of lengths of factorizations in T(D) where D is a principal ideal domain. In this talk, we extend the study to T(R) when R is a unique factorization ring that is not a principal ideal ring. (Received January 10, 2017)