

1086-VJ-2613      **Matthew J Lennon\*** (mj14646@louisiana.edu) and **Gary F Birkenmeier**. *A generalization of the concept of essentiality for rings and module*. Preliminary report.

In this talk the idea of an *intrinsic extension* of a ring, first proposed by Faith and Utumi, is generalized and studied in its own right. This concept can be viewed as a generalization of the well-studied notion of an essential extension of a ring. We also define an analogous notion for modules. Examples and applications are given to demonstrate the usefulness of these ring and module extensions. Specifically, examples are made to functional analysis and group ring theory. (Received September 25, 2012)