

1057-13-407

Luchezar L Avramov, Inês B Henriques and **Liana M Şega*** (segal@umkc.edu).

Homological algebra modulo an exact zero divisor. Preliminary report.

An element a in a commutative local ring R is said to be an *exact zero divisor* if it satisfies $0 \neq R/aR \cong (0 :_R a) \neq R$.

We will study the behavior of some basic homological and structural invariants with respect to the change of rings

$R \rightarrow R/aR$. (Received January 26, 2010)