1056-13-1604   **Luchezar L. Avramov** (`avramov@math.unl.edu`), University of Nebraska, Lincoln, NE 68588,
Inês Bonacho dos Anjos Henriques* (`ihenriques@math.unl.edu`), University of Nebraska,
Department of Mathematics, 203 Avery Hall 880130, Lincoln, NE 68508, and **Liana M. Sega**
(`segal@umkc.edu`), University of Missouri, Kansas City, MO 64110. *Ascent and descent modulo exact zero divisors.* Preliminary report.

An element a in a commutative ring R is said to be an *exact zero divisor* if it satisfies $0 \neq R/aR \cong (0 :_R a) \neq R$. It will be proved that homological and structural properties pass both ways between R and R/aR. (Received September 23, 2009)