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Andrew Windle* (andrew.windle@huskers.unl.edu). *Cohomological operators on quotients by an exact zero divisor*. Preliminary report.

We construct cohomological operators on the quotient ring R of a commutative ring S by an exact zero divisor $x \in S$. The construction is analogous to the construction of cohomological operators over a local complete intersection ring, but produces somewhat different results. We also connect this construction to the computation of the derived Hochschild cohomology of R over S . (Received July 15, 2017)