

1157-18-125

Pinches Dirnfeld* (dirnfeld@math.utah.edu), 155 S 1400 E, Room 233, Salt Lake City, UT 84112. *Base Change Along the Frobenius Endomorphism and the Gorenstein Property.*

Let R be a local ring of positive characteristic and X a complex with nonzero finitely generated homology and finite injective dimension. We prove that if derived base change of X via the Frobenius (or more generally, via a contracting) endomorphism has finite injective dimension then R is Gorenstein. (Received January 31, 2020)