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Pinches Dirnfeld* (dirnfeld@math.utah.edu), DEPARTMENT OF MATHEMATICS, 155 SOUTH 1400 EAST, JWB 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 finite nonzero homology and finite injective dimension. We prove that if the derived base change of X along the Frobenius endomorphism has finite injective dimension then R is Gorenstein. (Received July 13, 2019)