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Bryan Charles White*, Department of Mathematics and Statistics, University of New Mexico, Albuquerque, NM 87131. *Star operations on numerical semigroup rings.*

We aim to classify the star operations on conductive numerical semigroup rings which are of the form $k + x^n k[[x]]$. By classifying the star operations on conductive numerical semigroup rings we obtain a better understanding of the set of star operations on general numerical semigroup rings. Here we classify all star operations on the ring $k + x^4 k[[x]]$. We also present several results about general conductive numerical semigroup rings that bring us closer to our goal. (Received September 21, 2012)