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## **Basak Ay\*** (bay@math.fau.edu) and Lee Klingler (klingler@fau.edu). Unique Decomposition into Ideals for Reduced Commutative Noetherian Rings.

We say that a commutative ring R has the unique decomposition into ideals (UDI) property if, for any R-module which decomposes into a finite direct sum of indecomposable ideals, this decomposition is unique up to the order and isomorphism class of the ideals. In a 2001 paper, Goeters and Olberding characterize the UDI property for Noetherian integral domains. In this paper, we characterize the UDI property for reduced Noetherian rings. (Received August 11, 2009)