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**Olivier A. Heubo-Kwegna\***, 7400 Bay Road, Department of Mathematical Sciences, Saginaw Valley State University, University Center, MI 48710. *On Local  $\star$ -Completely Integrally Closed Domains.*

Let  $\star$  be a star operation on an integral domain  $R$ . The domain  $R$  is a  $\star$ -completely integrally closed domain (or simply  $\star$ -CICD) if  $(AA^{-1})^\star = R$  for all nonzero (fractional) ideals  $A$  of  $R$ . In this talk, we discuss  $\star$ -CICDs, especially the local case. We show that if the maximal ideal of a local  $\star$ -CICD is a  $\star$ -ideal, then  $R$  is  $\star$ -principal ideal domain. This will lead as consequences to various results on local Krull domains and local completely integrally closed domains. We also establish that any  $\star$ -CICD  $R$  is locally a PID when  $\star$  is induced by the localizations at prime ideals of  $R$ . (Received August 16, 2013)