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Ela Celikbas* (ela.celikbas@math.wvu.edu), Department of Mathematics, West Virginia University, Morgantown, WV 26506, and **Jai Laxmi** and **Jerzy Weyman**. *Embeddings of Canonical Modules*.

It is well-known that, for a Cohen-Macaulay local ring S with a canonical module ω_S , if S is generically Gorenstein, then ω_S can be identified with an ideal of S , that is, ω_S embeds into S . In this talk, we are concerned with a specific embedding of a canonical module of $R/I_{m,n}$ to itself, where $I_{m,n}$ is an ideal generated by all square-free monomials of degree m in a polynomial ring R with n variables. We discuss how to construct such an embedding using a minimal generating set of $\text{Hom}_R(R/I_{m,n}, R/I_{m,n})$. (Received July 12, 2017)