

1100-13-249

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*Constructing non Gorenstein  $\mathbf{G}(r)$  rings from Gorenstein rings.*

A complete local ring of embedding codepth 3 has a minimal free resolution of length 3 over a regular local ring. Such resolutions carry a differential graded algebra structure, based on which one can classify local rings of embedding codepth 3. The Gorenstein rings of embedding codepth 3 belong to the class called  $\mathbf{G}(r)$ , which was conjectured not to contain any non Gorenstein rings. For any  $r \geq 2$  we construct non Gorenstein rings in  $\mathbf{G}(r)$ , starting from Gorenstein rings of embedding codepth 3. (Received February 09, 2014)