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G-regularity of rings of embedding codepth 3.

A local ring of embedding codepth 3 is up to completion a quotient of a regular local ring Q by an ideal I of grade 3. These rings have been classified based on the algebra structure of $\operatorname{Tor}_*^Q(Q/I, k)$, where k is the residue class field of Q. It is known that every Poincaré series of a finitely generated module over such a ring can be expressed as a rational function with denominator depending only of the ring. These denominators have been explicitly calculated by L. Avramov. We take advantage of these calculations to prove that all non-Gorenstein local rings of embedding codepth 3 are either embedded deformations or G-regular. (Received August 30, 2018)