

1112-13-108

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22904. *A counterexample to a conjecture of Ding.*

In 1993, Songqing Ding conjectured that the index of a Gorenstein local ring is always equal to its generalized Löewy length. The index is a numerical invariant defined in terms of Auslander's delta invariant, while the generalized Löewy length is the minimal Löewy length of an Artinian reduction of the ring. The purpose of this talk is to disprove Ding's conjecture, by presenting one-dimensional complete intersections for which the index is strictly less than the generalized Löewy length. (Received July 24, 2015)