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## Extended stretched Artinian local rings

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## Abstract

Let  $(R, \mathfrak{n})$  be a regular local ring and I be an ideal of R. Supposing that  $(A, \mathfrak{m}) = (R/I, \mathfrak{n}/I)$  is an Artinian local ring, we say that A is an extended stretched Artinian local ring if  $I \subseteq \mathfrak{n}^t$  and  $\mu(\mathfrak{m}^t) = 1$  for  $t \geq 2$ .

In this talk, we study the minimal free resolution of A. In particular, we compute the Betti numbers of A when A is an extended stretched local ring. We also give a structure theorem for A in the case that A has the maximal Cohen-Macaulay type.