

1075-13-147

Louiza Fouli* (lfouli@math.nmsu.edu), Department of Mathematical Sciences, New Mexico State University, Las Cruces, NM 88003. *Minimal reductions and balanced ideals*. Preliminary report.

Let R be a Noetherian local ring and let I be an ideal. Recall that J is a reduction of I if $J \subset I$ and $I^{n+1} = JI^n$ for some non-negative integer n . An ideal I is called balanced if $J : I$ is independent of the minimal reduction J of I . We will discuss properties of balanced ideals as well as possible generalizations of this notion. (Received August 27, 2011)