1118-13-104 **Hannah Altmann*** (haltmann@morris.umn.edu), **Eloisa Grifo**, **Jonathan Montano**, **William Sanders** and **Thanh Vu**. *Lower bounds on the level of perfect complexes.* Preliminary report.

Let R be an associative ring. An R-complex F is *perfect* if it is quasiisomorphic to a bounded complex of finitely generated projective modules. A useful invariant associated to every perfect complex is its level. We can think of the level of F as the number of steps it takes to build F out of R. We will discuss finding bounds on the level of a perfect complex. In particular, we will show that the length of the largest gap in the homology of a complex F gives a lower bound for the level of F. (Received January 26, 2016)