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Hailong Dao (hdao@ku.edu) and **Jonathan Montaño*** (jmontano@ku.edu), 66045. *Asymptotic vanishing behavior of local cohomology*. Preliminary report.

We study asymptotic vanishing of graded components of local cohomology of powers of ideals and modules. We are able to prove some Kodaira-like vanishing theorems, showing that under certain local conditions the smallest nonzero degree of these modules is bounded by a linear function. (Received February 03, 2018)