## 1011-19-63 G Cortiñas (gcorti@agt.uva.es), C Haesemeyer (chh@math.uiuc.edu), M Schlichting (mschlich@math.lsu.edu) and C Weibel\* (weibel@math.rutgers.edu). Cyclic homology, cdh-cohomology and negative K-theory.

We verify an old conjecture predicting the vanishing of the algebraic K-theory of a scheme X in degrees less than -d,  $d = \dim(X)$ , at least when X is essentially of finite type over a field of characteristic zero. To do this, we first establish a blow-up formula for cyclic homology, and use it to show that infinitesimal K-theory satisfies cdh-descent. The vanishing conjecture follows from this and some computations of the cdh-cohomology of the sheaf of regular functions. (Received August 10, 2005)