1035-13-1512 Luchezar L Avramov (avramov@math.unl.edu), 203 Avery Hall, University of Nebraska -Lincoln, Lincoln, NE 68516, and W. Frank Moore* (fmoore@math.unl.edu), 203 Avery Hall, University of Nebraska - Lincoln, Lincoln, NE 68516. Cohomology of connected sums of artinian Gorenstein rings. Preliminary report.

Let S and T be artinian Gorenstein local rings with common residue field k. The connected sum S#T is the quotient of the fiber product $S \times_k T$ by the difference of the two socle elements; it is Gorenstein. We describe of the Koszul homology algebra $H(K^{S#T})$ in terms of the Koszul homology algebras of S and T, and explore the Yoneda Ext algebra of S#T. (Received September 20, 2007)