

Meeting: 1006, Lubbock, Texas, SS 8A, Special Session on Invariants of Links and 3-Manifolds

1006-57-201 **Michael McLendon*** (mmclendon2@washcoll.edu), 300 Washington Avenue, Chestertown, MD 21620. *Higher Hochschild homology of a Heegaard splitting*. Preliminary report.

Given a Heegaard splitting of a closed 3-manifold, the zeroth Hochschild homology of the Heegaard splitting is isomorphic to the skein module of the associated manifold. It is natural to ask whether the higher Hochschild homology modules are independent of the Heegaard splitting. Calculations of the higher Hochschild homology modules of various Heegaard splittings of the 3-sphere will be presented in an effort to answer this question. (Received February 14, 2005)