

**Meeting:** 1003, Atlanta, Georgia, SS 8A, AMS Special Session on Modular Representation Theory of Finite and Algebraic Groups, I

1003-20-945      **Thomas Rune Hoffman\*** (thoffman@coastal.edu). *The Basic Algebra of HS in Characteristic 2.*

Let  $G$  be a finite simple group and  $F$  a field of characteristic dividing the order of  $G$ . The basic algebra of  $FG$  is the smallest algebra Morita equivalent to  $FG$ . I will present an algorithm for constructing the basic algebra of  $FG$  as a quotient of the path algebra of the Ext-quiver of  $FG$ . In particular, I will present the Ext-quiver of the Higman-Sims sporadic group in characteristic 2 and discuss the relations for the basic algebra. (Received October 01, 2004)