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For  $p$  a prime number, I will describe generators for the ring of invariants for the  $p+1$  dimensional indecomposable modular representation of the cyclic group of order  $p^2$ . I will explain how to use these invariants to determine the decomposition of the symmetric algebra as a module over the group ring. This decomposition confirms the Periodicity Conjecture of Ian Hughes and Gregor Kemper for this case. This is joint work with R. James Shank. (Received September 08, 2005)