1092-17-78 **Randall R. Holmes*** (`holmerr@auburn.edu`), Department of Mathematics and Statistics, 221 Parker Hall, Auburn University, Auburn, AL 36849, and **David P. Turner**. *The coefficient coalgebra of a symmetrized tensor space.*

The coefficient coalgebra of r-fold tensor space and its dual, the Schur algebra, are generalized in such a way that the role of the symmetric group Σ_r is played by an arbitrary subgroup of Σ_r. The dimension of the coefficient coalgebra of a symmetrized tensor space is computed and the dual of this coalgebra is shown to be isomorphic to the analog of the Schur algebra. (Received July 29, 2013)