

**Meeting:** 1003, Atlanta, Georgia, AMS CP 1, AMS Contributed Paper Session

1003-05-1063      **John T Hall\*** (jhall@math.umn.edu), 127 Vincent Hall, University of Minnesota, 206 Church St. SE, Minneapolis, MN 55455. *Combinatorial Deformations of the Full Transformation Semigroup*. Preliminary report.

The Full Transformation Semigroup  $T_n$  is the semigroup of all maps from a set of size  $n$  to itself. The representation theory of  $T_n$  is closely tied to that of the Symmetric Group  $S_n$ , which it contains. However the usual questions are considerably more difficult to answer because the associated semigroup algebra  $\mathbb{C}T_n$  is not semisimple. In this talk we define a deformation of  $\mathbb{C}T_n$  and give a decomposition of the generically semisimple algebra that results.

(Received October 02, 2004)