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Jonathan Comes, Dept. of Mathematics, University of Oregon, Eugene, OR , and **Jonathan Kujawa***, Dept. of Mathematics, University of Oklahoma, Norman, OK. *Modified traces on Deligne's category $\text{Rep}(S_t)$.*

For a complex parameter, t , Deligne combinatorially defined a category, $\text{Rep}(S_t)$, which "interpolates" among the representations of the various symmetric groups. We discuss these interesting categories and how they admit nontrivial modified trace and dimension functions. As an easy application, we use them to recover the knot invariant known as the writhe. (Received December 20, 2011)