

DIAGRAMMATICS OF SHIFTED SYMMETRIC FUNCTIONS

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Abstract: Categorification enriches a theory by adding an extra dimension, and this richer theory allows one to gain new understandings of original one. This is also the case with the twisted Heisenberg category and its trace decategorification. Twisted Heisenberg category \mathcal{H}_{tw} can be seen as the type-B analogue of the Heisenberg category for the symmetric group. Therefore, the center of the \mathcal{H}_{tw} is related to the Schur-Q functions. The twist in the story is that one gets their non-homogeneous versions through this process. This is joint work with H. Kvinge and M.Reeks.