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Henry Kvinge* (hkvinge@math.ucdavis.edu), **Anthony Licata** and **Stuart Mitchell**. *A surprising connection between Khovanov's Heisenberg category and the asymptotic representation theory of symmetric groups.*

Khovanov introduced a remarkable monoidal category \mathcal{H} , known as the Heisenberg category. \mathcal{H} is defined via a calculus of planar diagrams and conjecturally categorifies the Heisenberg algebra. We will show how certain structures related to the asymptotic representation theory of symmetric groups appear naturally in the center of this category. This provides us with a new diagrammatic framework with which to understand these structures. (Received August 29, 2016)