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Michael A Abel* (maabel@email.unc.edu) and **Lev Rozansky**. *A new grading in HOMFLY-PT homology via virtual crossings*. Preliminary report.

In 2005 Khovanov and Rozansky defined a triply-graded homology theory which categorifies the HOMFLY-PT polynomial. Later Khovanov showed that this homology theory could be reconstructed using Rouquier complexes of Soergel bimodules. There exists a filtration of Soergel bimodules into bimodules representing virtual crossings, or standard bimodules. By passing to a nested derived category and representing Soergel bimodules as convolutions of virtual crossings, we show that this filtration induces a fourth independent grading on HOMFLY-PT homology. (Received September 17, 2013)