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**Mikhail Khovanov** and **Lev Rozansky\*** (rozansky@math.unc.edu). *Positive half of the Witt algebra acts on triply graded link homology.*

The appearance of the variable  $q$  is an essential feature of the theory quantum invariants in 3d topology. Under categorification  $q$  turns into a  $\mathbb{Z}$ -grading of a link homology. We will show that the triply graded link homology categorifying the HOMFLY-PT polynomial has a structure of a module over the positive half of the Witt algebra (that is, the algebra of formal vector fields on a complex line), the  $\mathbb{Z}$ -degree being the eigenvalue of one of its generators. (Received September 21, 2014)