ALGEBRAIC VS GEOMETRIC CATEGORIFICATION OF THE ALEXANDER POLYNOMIAL: A SPECTRAL SEQUEL

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We construct a spectral sequence from the gl0-homology, an algebraic categorification of the Alexander polynomial to the knot Floer homology. This spectral sequence is of Bockstein type and comes from a subtle manipulation of coefficients. The main tools are quantum traces of foams and of singular Soergel bimodules.

This is a joint work with Anna Beliakova, Kris Putyra, and Louis-Hadrien Robert.