

ABSTRACT

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In the recent project with Anna Beliakova, Stephan Wehrli and Matt Hogancamp we are comparing two different categorifications of the colored Jones polynomial: Khovanov's construction (based on a resolution of a symmetric representation in the Temperley-Lieb category) and Cooper-Krushkals' (via categorified Jones-Wenzl projector). Khovanov's construction is finite dimensional, but not defined in a purely diagrammatic way. On the other hand, Cooper-Krushal's complex can be constructed diagrammatically, but the homology has infinite dimension. In this talk I will discuss their quantized versions and how we show that they coincide.