
FRANCESCO LIN, Princeton

Khovanov homology in characteristic two and $Pin(2)$ -symmetry

Bar-Natan has introduced for a link L in S^3 a variant of Khovanov homology which is defined only over fields of characteristic two. We discuss a geometric interpretation of his construction: we show how a version of his invariant naturally appears as the E^2 -page of the analogue of the Ozsváth-Szabó spectral sequence for the branched double cover in the context of $Pin(2)$ -monopole Floer homology. Conjecturally, this spectral sequence converges to a version of the Floer homology of the branched double cover.