

TOWARD AN EQUIVARIANT KHOVANOV HOMOLOGY

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In this talk, we construct an equivariant Khovanov homology, with coefficients in the finite field \mathbb{F}_2 , associated to link diagrams with \mathbb{Z}_p -symmetry. Then we prove that this homology is conserved under equivariant Reidemeister moves.

This equivariant Khovanov homology is better described using the categorification of the Kauffman bracket skein module of the solid torus.