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On Khovanov homology of links

Khovanov homology of knots and links was introduced by Mikhail Khovanov at the end of last century. This link invariant, which categorifies Jones polynomial, was nicely reinterpreted by Viro in a purely combinatorial way in terms of Kauffman states. While conceptually simple, this definition becomes impractical when increasing the numbers of crossings of a link diagram.
In this talk we present a new approach to extreme Khovanov homology introduced in [GMS]. With this point of view, we conjecture in [PS] that extreme Khovanov homology is torsion free and prove it for some particular families of links. We also present some advances on the study of torsion in Khovanov homology of torus links.

[GMS]: J. Gonzlez-Meneses, P. M. G. Manchn and M. Silvero. A geometric description of the extreme Khovanov homology. Proccedings of The Royal Society of Edinburgh: Section A.

[PS]: J. H. Przytycki and M. Silvero. Homotopy type of circle graphs complexes motivated by extreme Khovanov homology. `https://arxiv.org/abs/1608.03002`