Generalized Khovanov algebras

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Generalized Khovanov algebras can be used to introduce graded versions of blocks of parabolic category $\mathcal{O}$, the general Lie supergroup and walled Brauer algebras. These algebras are elementary to construct and fit nicely into the categorification picture of Khovanov-Lauda and Rouquier. This talk will give an overview about this construction and explain applications to Lie superalgebras and cyclotomic Hecke algebras.