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Nicholas Davidson* (ndavidson@math.ou.edu). *Categorical Actions and Supercategories.*

Over the last ten years, categorical actions of Kac-Moody algebras (in the sense of Khovanov-Lauda and Rouquier) have played an important role in representation theory. I will discuss my work in extending these ideas to actions of Kac-Moody algebras on *supercategories*, and emphasize how this work sheds light on the combinatorics of category \mathcal{O} for the Lie superalgebra $\mathfrak{q}_n(\mathbb{C})$. (Received July 19, 2017)