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Peng Shan* (pengshan@mit.edu). *Categorifications and rational Cherednik algebras.*

Varagnolo and Vasserot conjectured an equivalence of categories between the category \mathcal{O} of cyclotomic rational Cherednik algebras and an affine parabolic category \mathcal{O} . This conjecture implies character formulae for simple modules of these Cherednik algebras and the Koszulity of its category \mathcal{O} . I will explain a proof of this conjecture. This is a joint work with R. Rouquier, M. Varagnolo and E. Vasserot. (Received February 17, 2013)