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**Daniele Rosso\*** (drosso@iu.edu) and **Alistair Savage**. *Quantum Affine Wreath Product Algebras*.

We introduce a family of algebras called quantum affine wreath product algebras, whose definition depends on the choice of a Frobenius algebra. We study their structure and their cyclotomic quotients. These algebras are quantum deformations of the affine wreath product algebras studied by the second author and appear naturally in the context of Heisenberg categorification. Special cases include affine Hecke algebras and Yokonuma-Hecke algebras. (Received January 22, 2019)