Jason Gaddis, Robert Won and Daniel Yee\* (dyee@fsmail.bradley.edu). Center of Taft Algebra Smash Products.

Given the  $n^2$ -dimensional Taft algebra H and an H-module algebra R, we determine the center of the smash product R#H under certain conditions. We apply this result to computing the discriminant, an automorphism invariant, of A#H, where A is the skew polynomial algebra or the quantum Weyl algebra. (Received January 29, 2018)