1083-16-85 **James J Zhang***, Box 354350, Department of Mathematics, University of Washington, Seattle, WA 98195. *Invariant Theory of finite group actions on down-up algebras.* Preliminary report.

We explore a noncommutative version of Kac-Watanabe and Gordeev theorem for noetherian graded down-up algebras. This is joint work with Ellen Kirkman and James Kuzmanovich. (Received August 20, 2012)