1158-16-104 Zachary Cline and Jason Gaddis* (gaddisj@miamioh.edu). Actions of quantum linear spaces on quantum algebras.

Due to the principle of quantum rigidity, noncommutative algebras exhibit few classical symmetries. That is, their graded automorphism group is small compared to their commutative counterparts. In the search for more symmetries, one is naturally led to the study of Hopf algebra actions. In this talk, I will focus on Taft algebras, their generalizations and higher-dimensional analogues. I will discuss a classification of linear of actions of quantum linear spaces on quantum affine spaces and quantum matrix algebras. (Received February 25, 2020)