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*Reflection and rigidity of quadratic Poisson algebras.* Preliminary report.

In this talk, we will explore the work of Kirkman, Kuzmanovich, and Zhang, on rigidity of graded regular algebras and discuss applications to the homogenized  $n$ th Weyl Poisson algebra. In particular, we examine the fixed ring of  $H_n$ , under a nontrivial group of automorphisms of  $H_n$ , and show that it is not isomorphic to  $H_n$  itself. That is, the homogenized  $n$ th Weyl Poisson algebra is rigid. This is joint work with Padmini Veerapen and Jason Gaddis. (Received January 14, 2021)