1163-16-1121Padmini Veerapen* (pveerapen@tntech.edu), Jason Gaddis and Xingting Wang. On
Reflection Groups of the Homogenized n^{th} Weyl Poisson Algebra, H_n . 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. (Received September 14, 2020)