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Kenneth Chan, Jason Gaddis* (gaddisj@miamioh.edu), **Robert Won** and **James Zhang**.

Reflexive hull discriminants of quantum generalized Weyl algebras.

We introduce the reflexive hull discriminant as a tool to study invariant theory questions for algebras that are finitely generated, but not necessarily free, over their centers. We compute this discriminant for quantum generalized Weyl algebras and use this to determine their automorphism groups. This is joint work with Kenneth Chan, Robert Won, and James Zhang. (Received September 11, 2020)