## 1147-16-199Daniel Yee\* (dyee@fsmail.bradley.edu) and Jason Gaddis (gaddisj@miamioh.edu).<br/>Congenial Algebras. Preliminary report.

In recent work of Bao, He, and Zhang, the notion of pertinancy was a way to test whether a finite dimensional Hopf algebra H acting on an algebra A satisfies the conclusion of Auslander's Theorem, an isomorphism between the algebra A # H and the endomorphism ring  $\operatorname{End}_{A^{H}}(A)$ . It was shown that a class of filtered algebras called congenial algebras satisfy pertinancy with some additional conditions. We show that that there are several types of algebras satisfying the congenial condition. (Received January 09, 2019)