

INDECOMPOSABLE MODULES OVER
GROUP GRADED SKEW ALGEBRAS

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Abstract. G -graded skew algebras over a G -acted commutative ring have been introduced by E. Dade as a framework to combine Clifford theory and Galois theory. In this note we consider indecomposable graded modules over such algebras and their endomorphism rings.

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Key words. Group graded algebras, skew algebras.

REFERENCES

- [1] DADE, E.C., *Clifford theory and Galois theory. I*, J. Algebra, 319 (2008), 779–799.
- [2] DICU, C. and MARCUS, A., *Source modules of blocks with normal defect groups*, Arch. Math. **88** (2007), 289–296.
- [3] MARCUS, A., *Static modules and Clifford theory for strongly graded rings*, Publ. Math. Debrecen, Tomus **42**, Fasc. 3–4, 303–314, 1993.
- [4] MARCUS, A., *Representation Theory of Group Graded Algebras*, Nova Science Publishers, Commack, NY, 1999.
- [5] NAVARRO, G., *The McKay conjecture and Galois automorphisms*, Annals of Math. **160** (2004), 1129–1140.
- [6] TURULL, A., *Strengthening the McKay Conjecture to include local fields and local Schur indices*, J. Algebra, in press.

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