

REMARKS ON INDUCTION OF G -ALGEBRAS
AND SKEW GROUP ALGEBRAS

TIBERIU COCONET

Abstract. In the first section we give a pointed group version of a result of Dade on Green theory. Related to this, in the second section we consider an H -algebra B , where H is a subgroup of a finite group G . For the skew group algebra $B * H$, we prove that its induction to G in the sense of Puig is isomorphic to the skew group algebra over G of the induction, in the sense of Turull, of B to G .

MSC 2000. 20C20, 16S35.

Key words. Pointed group, defect pointed group, G -interior algebra, induction of G -algebras.

REFERENCES

- [1] DADE, E. C., *Block extensions*, Illinois J. Math., **17** (1973), 198–272.
- [2] KLASSEN, W. and SCHMID, P., *Induced crossed products*. Comm. Algebra, **18** (1990), 2573–2586.
- [3] MARCUS, A., *Derived invariance of Clifford classes*, J. Group Theory, **12** (2009), 83–94.
- [4] THÉVENAZ, J., *G -Algebras and Modular Representation Theory*, Clarendon Press, Oxford 1995.
- [5] TURULL, A., *Reduction theorems for Clifford classes*, J. Group Theory, **9** (2006), 27–47.

Received November 18, 2008

Accepted December 5, 2008

“Babeş-Bolyai” University
Faculty of Mathematics and Computer Science
Str. Mihail Kogălniceanu nr. 1
400084 Cluj-Napoca, România
E-mail: coconet.tibi@gmail.com