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Smash products for G -sets, Clifford theory and duality theorems. (English) Zbl 0836.16029

Bull. Belg. Math. Soc. - Simon Stevin 2, No. 4, 389-398 (1995).

Motivated by the study of Clifford theory and duality theorems, the authors develop the theory of smash products for G -sets, where G is a group. They extend *E. Dade's* graded Clifford theory [J. Reine Angew. Math. 369, 40-86 (1986; [Zbl 0583.16001](#))] to the case of G -set gradations and they also obtain a duality theorem which extends a result of *M. Beattie* [J. Algebra 115, 303-312 (1988; [Zbl 0647.16010](#))].

Reviewer: [J.L.Gómez-Pardo](#) (Santiago de Compostela)

MSC:

[16W50](#) Graded rings and modules (associative rings and algebras)

[16S40](#) Smash products of general Hopf actions

[16D90](#) Module categories in associative algebras

[16W20](#) Automorphisms and endomorphisms

Keywords:

duality theorems; smash products for G -sets; graded Clifford theory; G -set gradations

Full Text: [EuDML](#)