Crossed products, Brauer groups and Clifford algebras
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We introduce an equivalence between central simple strongly $G$-graded algebras. Such classes are associated in a natural way to absolutely irreducible characters of semisimple $G$-graded algebras. We study invariants of this equivalence relation, and also the structure of certain representatives of the equivalence classes. We show that $G$-graded Rickard equivalences defined over small fields preserve Clifford classes associated to characters. These equivalences are compatible with operation on Clifford classes defined in terms of central simple crossed products.