ABSTRACT

Ring of subquotients of a finite group

We introduce the ring of subquotients of a finite group. As an abelian group, this ring is free on a set of representatives of conjugacy classes of subquotients of the group and extends the well-known Burnside ring. As an application, we shall relate this construction to the character ring of Mackey functors in the same way as the Burnside ring is related to the ordinary character ring. The study of functorial properties of the ring of subquotients leads us to $\star$-biset functors and a version of Boltje's canonical induction formula.