Block Coverings in Finite Groups ZHANG Jiping, *Beijing University*

Abstract

We say that a finite group G is principally covered if any irreducible complex character of G lies in the principal p-block of G for some prime p. It has been conjectured that if G is principally covered then either G has only one p-block for some prime p or the Fitting subgroup of G is trivial. In this talk we confirm the conjecture, we also almost determine the generalized Fitting subgroup of G. This is a joint work with C. Bessenrodt.