

Study of Algebraic and Combinatorial Properties of Group Rings

In this thesis conditions have discussed on finite 2 and 3 groups G under which fourth and fifth dimension subgroup is trivial. Also, in last Chapter the complete algebraic structure of finite semisimple group algebra $F_q[G]$ has been obtained, where F_q is a finite field with q elements and G is a finite group such that $G/Z(G)$ is isomorphic to direct product of two cyclic groups of order p , p odd prime