

Derived lengths in group algebras

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Let FG be the group ring of a group G over a field F of characteristic $p > 2$. Let us consider the F -linear extension of the anti-automorphism of G sending each element to its inverse, and denote by FG^+ the set of symmetric elements, by FG^- the set of skew elements of FG with respect to this involution. In this talk we investigate the Lie derived length of FG , FG^+ and FG^- and the derived length of the units of FG and FG^+ .