K-Theory, Quadratic Forms and Number Theory Seminar

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will speak on

On group algebras of groups with cyclic derived subgroup

Wed 23rd March 2011 at 3:00PM

Location: Mathematical Sciences Seminar Room

Let G be a p-abelian group with cyclic derived subgroup, here p is an odd prime,and let F be a field of characteristic p. Denote by FG+ the set of symmetric, by FG- the set of skew symmetric elements of the group algebra FG, with respect to the canonical involution. In this talk we determine – the Lie derived length and the strong Lie derived length of FG; – the Lie derived length of FG+ and FG-, provided that G is nilpotent; – the Lie nilpotency indices of FG and FG+; – the derived length and the nilpotency class of the unit group of FG; – the derived length and the nilpotency class of the units of FG+, provided that G is torsion and nilpotent group.

This talk is part of the **K-Theory, Quadratic Forms and Number Theory** series. For more, see
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