Algebra Seminar

Prof Salvatore Siciliano University of Salento, Italy

Thursday, July 23, 2015 1100-12:00 noon, HH-2010

Outer restricted derivations of nilpotent restricted Lie > algebras

We characterize finite-dimensional nilpotent restricted Lie algebras having an outer restricted derivation whose square is zero. This is the restricted analogue of a result of Togo on the existence

of nilpotent outer derivations of ordinary nilpotent Lie algebras in arbitrary characteristic and the Lie-theoretic analogue of a classical group-theoretic result of Gaschutz on the existence of p-power

automorphisms of p-groups. The is a joint work with J. Feldvoss and Th. Weigel.