

Algebra Seminar

Dr Hamid Usefi,
Memorial University

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HH-3017, 1:00p.m.

Lie solvable enveloping algebras

Abstract:

Let L be a restricted Lie algebra with restricted enveloping algebra $u(L)$ over a field of characteristic $p > 0$. The characterization of L when $u(L)$ is Lie solvable was done by Riley and Shalev in case $p > 2$, however the remaining case $p = 2$ remained a subtle problem. In a recent paper joint with Siciliano we tried to tackle this and now we have a complete classification.

In this talk, I will try to give an outline of the proof and explain how difficulty arises.