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.