Belavin-Drinfeld Lie bialgebras and quantum groups (Galois cohomology considerations)

Arturo Pianzola
CAECE-Alberta
a.pianzola@gmail.com

In the study of Lie bialgebra structures over C[[t]] certain "cohomology theories" were introduced by B. Kadets, E. Karolinsky, I Pop and A. Stolin. We will explain how these theories can be explained/reformulated in terms of Galois cohomology. By doing so we will be able to establish some open conjectures.

Joint work with A. Stolin (Gothenburg, Sweden).