ALEXEI KRASSILNIKOV, Universidade de Brasilia
Lie nilpotent asssociative algebras

An associative algebra A is called Lie nilpotent if its associated Lie algebra $A^{(-)}$ (with the Lie bracket defined by $[a, b] = ab - ba$) is nilpotent. Recent interest in Lie nilpotent associative algebras has been motivated by the study of the quotients of the lower central series of $A^{(-)}$ for various associative algebras A. This study was initiated in 2007 in the pioneering work of Feigin and Shoikhet and developed in a number of articles by various authors.

In my talk I will present and discuss some new results about Lie nilpotent associative algebras.