



## ALGEBRA SESSION

# Homological Properties of Metabelian Restricted Lie Algebras.

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16h30 - 17h20

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### Abstract.

This is a joint work with my supervisor D. H. Kochloukova. Recently, in a published paper in journal of Algebra, Kochloukova and Leon charaterised the finitely presented split metabelian restricted Lie algebras over a perfect fiel  $k$ . Our first result generalizes their result by dropping the assumption that the field  $k$  is perfect and that the extension is split. Our second result is the classification of split extension metabelian restricted Lie algebras (let us say  $L$ ) of homological type  $FP_m$  i. e. the trivial module  $k$  over  $calU_{res}(\mathcal{L})$  has a projective resolution with all module finitely generated in dimensions up to  $m$ . The same problems for ordinary Lie algebras were treated ealier by Bryant and Groves (in the case of finite presentability) and by Kochloukova (for the type  $FP_m$ ).

**Keywords:** Restricted Lie Algebras. Finitely Presented. Homological Type  $FP_m$ . Homology Theory.

## References

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