

NEW ADVANCES IN THE DESCRIPTION OF FILIFORM LIE ALGEBRAS

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ABSTRACT. In this paper, we present several improvements on an algorithmic method, previously introduced by ourselves, to describe and classify filiform Lie algebras when considering the maximal dimension of abelian ideals and studying the relation between them and some known invariants of filiform Lie algebras. These improvements have been obtained thanks to proving here some new results about coefficients in the general law of filiform Lie algebras.

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