SOME UPPER BOUNDS FOR THE DIMENSION OF THE c -NILPOTENT MULTIPLIER OF A PAIR OF LIE ALGEBRAS

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Abstract

The notion of the Schur multiplier of a Lie algebra L was introduced by Batten in 1996. Recently, the first author introduced the concept of the c -nilpotent multiplier of a pair of Lie algebras and gave some exact sequences for the c -nilpotent multiplier of a pair of Lie algebras. The purpose of this paper is to derive some inequalities for dimension of the c -nilpotent multiplier of a pair of Lie algebras.

Keywords: pair of Lie algebras, Schur multiplier, nilpotent Lie algebra.

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