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Title: On the *c*-nilpotent multiplier of a pair of Lie algebras

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Let $1 \to R \to F \to L \to 1$ be a free presentation of a Lie algebra L, and N be an ideal in L. In [14], the first two authors of the present paper defined and studied the notion of the *c*-nilpotent multiplier of a pair (N, L) of Lie algebras as $\mathcal{M}^{(c)}(N,L) = (R \cap [S,_c F])/[R,_c F]$, where S is an ideal in F such that $S/R \cong N$. In this paper, we give some results on *c*-covers of a pair of Lie algebras as well as several inequalities for the dimension of the *c*-nilpotent multiplier of a pair of nilpotent Lie algebras.

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