Consider a simple complex Lie algebra $g_c$ with real form $g$. Let $Aut_e g_c$ be the group of all automorphisms of $g_c$ generated by the elements of the form $\exp ad x$ with nilpotent $ad x$. Let $Aut_0 g$ be the inverse image of $Aut_e g_c$ with respect to the map $Aut g \to Aut g_c$, $g \mapsto g \otimes 1$, and $Aut_0(g, h)$ be the subgroup of $Aut_0 g$ preserving the Cartan subalgebra $h \subset g$. The author deduces a necessary and sufficient condition for certain pairs of $Aut_0(g, h)$ to be conjugate.

Reviewer: I. Kolář

MSC:
17B40 Automorphisms, derivations, other operators for Lie algebras and super algebras
17B20 Simple, semisimple, reductive (super)algebras

Keywords:
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References:
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