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**A note on the generalized neutral orthogonal group in dimension four.** (English)

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Summary: We study the main properties of generalized neutral orthogonal group  $O(2,2)$  and its Lie algebra  $o(2,2)$  and give an explicit isomorphism between Lie algebras  $\mathfrak{su}(1,1) \oplus \mathfrak{su}(1,1)$  and  $o(2,2)$ . We use this isomorphism to classify the subalgebras of  $o(2,2)$ .

**MSC:**

70G65 Symmetries, Lie group and Lie algebra methods for problems in mechanics

Cited in 1 Document

22E70 Applications of Lie groups to the sciences; explicit representations

**Keywords:**

classification; explicit isomorphism