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On strongly continuous one-parameter groups of automorphisms of multilinear functionals. (English)

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The aim of the paper is to study the structure of the strongly continuous one-parameter automorphism groups of the space $\mathcal{B} = BL(H^{(1)}, \dots, H^{(N)})$ of all bounded N-linear functionals $H^{(1)} \times \dots \times H^{(N)} \rightarrow \mathbb{C}$ where $H^{(1)}, \dots, H^{(N)}$ are complex Hilbert spaces. As a consequence, a classification of Cartan factors of type one is obtained.

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Keywords : strongly continuous one-parameter group; N-linear functional; automorphism; Hilbert space

Classification :

*46C99 Inner product spaces, Hilbert spaces

46L36

46L40 Automorphisms of C*-algebras