HYERS-ULAM-RASSIAS STABILITY OF GENERALIZED CAUCHY FUNCTIONAL EQUATION

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Abstract. In this paper, the Hyers-Ulam-Rassias stability of generalized Cauchy functional equation \( f(\alpha x + \beta y) = \alpha f(x) + \beta f(y), \alpha, \beta \in \mathbb{R} \setminus \{0\}, \) for \( A \)-linear mapping over \( \mathbb{C}^* \)-algebras will be investigate.

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Key words. Hyers-Ulam-Rassias Stability, fixed point, additive mapping, contractive mapping, generalized Cauchy functional equation.

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