

STABILITY OF MIXED TYPE CUBIC AND ADDITIVE FUNCTIONAL EQUATION IN FUZZY NORMED SPACES

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Abstract

In this paper, the authors investigate the generalized Hyers-Ulam stability of the mixed type of cubic and additive functional equation $3f(x + y + z) + f(-x + y + z) + f(x - y + z) + f(x + y - z) + 4[f(x) + f(y) + f(z)] = 4[f(x + y) + f(x + z) + f(y + z)]$ in fuzzy normed spaces.

Key Words: Fuzzy normed space, Additive functional equation, Cubic functional equation, Generalized Hyers-Ulam stability.

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