THE STABILITY OF A FUNCTIONAL EQUATION OF MULTIPLICATIVE DERIVATION TYPE

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Abstract. In this paper, we investigate the stability in the sense of Ger of the following functional equation of multiplicative derivation type which was introduced by Gy. Maksa and Zs. Páles [5]:

$$\delta(xy) = M(x)\delta(y) + M(y)\delta(x)$$

for all $$x, y \in (0, \infty)$$, where $$M : (0, \infty) \to (0, \infty)$$ is a function satisfying $$M(xy) = M(x)M(y)$$ for all $$x, y \in (0, \infty)$$.


Key words and phrases: multiplicative derivation, stability in the sense of Ger.

REFERENCES