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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 $x, y \in (0, \infty)$.

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