ON THE HYERS–ULAM–RASSIAS STABILITY OF AN $n$–DIMENSIONAL PEXIDERIZED QUADRATIC EQUATION

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Abstract. In this paper we prove the stability of an $n$-dimensional Pexiderized quadratic equation

$$f_1\left(\sum_{i=1}^{n} x_i\right) + \sum_{1 \leq i < j \leq n} f_{\alpha(i,j)} (x_i - x_j) = n \sum_{i=1}^{n} f_{\beta(i)} (x_i)$$

in the spirits of Hyers, Ulam and Rassias.


Keywords and phrases: Quadratic function, Hyers-Ulam-Rassias stability, Pexiderized Euler-Lagrange equation.

REFERENCES