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ON THE STABILITY OF AN n–DIMENSIONAL QUADRATIC AND ADDITIVE FUNCTIONAL EQUATION

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Abstract. In this paper, we investigate the generalized Hyers-Ulam stability problem of a quadratic and additive type functional equation

$$f\left(\sum_{i=1}^{n} x_i\right) + (n-2)\sum_{i=1}^{n} f(x_i) = \sum_{1\leqslant i<j\leqslant n} f(x_i + x_j),\ (n>2)$$

for the even or odd case in the n variables.

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