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Title: Stability of the entropy equation

Author(s): Eszter Gselmann

In this paper we prove that the so-called entropy equation, i.e.,

$$H(x, y, z) = H(x + y, 0, z) + H(x, y, 0)$$

is stable in the sense of Hyers and Ulam on the positive cone of $\mathbb{R}^3$, assuming that the function H is approximatively symmetric in each variable and approximatively homogeneous of degree α , where α is an arbitrarily fixed real number.

Address:

Eszter Gselmann
Institute of Mathematics
University of Debrecen
H-4010 Debrecen, P.O. Box 12
Hungary