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A FIXED POINT APPROACH TO THE STABILITY OF AN EQUATION OF THE SQUARE SPIRAL

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This paper is dedicated to Professor Themistocles M. Rassias.

Submitted by K. Ciesielski

ABSTRACT. Cădariu and Radu applied the fixed point method to the investigation of Cauchy and Jensen functional equations. In this paper, we adopt the idea of Cădariu and Radu to prove the Hyers-Ulam-Rassias stability of a functional equation of the square root spiral, $f(\sqrt{r^2 + 1}) = f(r) + \tan^{-1}(1/r)$.

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