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A FIXED POINT APPROACH TO THE STABILITY OF φ -MORPHISMS ON HILBERT C^* -MODULES

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ABSTRACT. Let E, F be two Hilbert C^* -modules over C^* -algebras A and B respectively. In this paper, by the alternative fixed point theorem, we give the Hyers-Ulam-Rassias stability of the equation

$$\langle U(x), U(y) \rangle = \varphi(\langle x, y \rangle) \quad (x, y \in E),$$

where $U : E \rightarrow F$ is a mapping and $\varphi : A \rightarrow B$ is an additive map.

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