Abstract. We prove the Cauchy–Rassias stability of linear \( n \)-inner product preserving mappings in \( n \)-inner product Banach spaces. We apply the Cauchy-Rassias inequality that plays an influential role in the subject of functional equations. The inequality was introduced for the first time by Th. M. Rassias in his paper entitled: On the stability of the linear mapping in Banach spaces, Proc. Amer. Math. Soc. 72, (1978), 297–300.


Key words and phrases: Cauchy–Rassias stability, linear \( n \)-inner product preserving mapping, \( n \)-inner product Banach space, Hilbert space.

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