Extending Kannan and Chatterjea theorems in 2-Banach spaces by using sequentially convergent mappings

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The term of 2-normed space is given by S. Gähler ([7]), and 2-banach space by A. White ([1]). Further, in [3], P. K. Hatikrishnan, K. T. Ravindran, have defined a contractive mapping in 2-normed space. In [2] and [9], generalizations of Kannan ([4]) and Chatterjea ([8]) fixed points theorems in 2-Banach spaces are given. In this paper by using sequentially convergent mappings, the results given in [2] and [9] are generalized in 2-Banach spaces. The latter might also be considered as generalizations of the results given in [10].

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