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Talat Nazir* (dr.talatnazir@gmail.com), Department of Mathematics and Computer, Technical University Eindhoven, 5612 AZ, The Netherlands, 5612 Eindhoven, Brabant, Netherlands. *Some Approximate Fixed Point Results for Generalized Nonexpansive Mappings in Ptolemy Spaces*. Preliminary report.

In this paper, using the setting of Ptolemy's inequality in a metric space, we obtain some new approximate fixed point results. Some examples are given to validate the concepts and results presented herein. The well-posedness of the approximate fixed point problem is also studied. The proved results unify and improve many recent results of existing literature. (Received May 11, 2014)