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**WEAK AND STRONG CONVERGENCE THEOREMS OF
COMMON FIXED POINTS FOR ASYMPTOTICALLY
QUASI-NONEXPANSIVE MAPPINGS IN THE INTERMEDIATE
SENSE**

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Abstract

In this paper, we study convergence of common fixed points of generalized modified three-step iterative algorithm for asymptotically quasi-nonexpansive mappings in the intermediate sense and establish a weak and strong convergence theorems for said scheme and mappings in the framework of real Banach spaces. The results presented in this paper improve and extend some recent corresponding results of [8, 9, 10, 16, 17, 22, 23] and many others.

Key Words : *Asymptotically quasi-nonexpansive mapping in the intermediate sense, Three-step iterative algorithm, Common fixed point, Weak convergence, Strong convergence, Banach space.*

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