

1106-46-2425

Wutiphol Sintunavarat* (poom_teun@hotmail.com), Khlong Luang, Pathumthani, 12121, Thailand. *A new approach to α - ψ -contractive mappings along with multiplicative distances and generalized Ulam-Hyers stability, well-posedness and limit shadowing results.*

In this talk, we introduce the new concept of α - ψ -contractive mappings along with multiplicative distances and give example to show that our concept is different from the concept corresponding existing in the literature. We also give fixed point theorems for α - ψ -contractive mappings in multiplicative metric spaces and give some example which support our main result while previous results in literature are not applicable. Moreover, we study the generalized Ulam-Hyers stability, the well-posedness and the limit shadowing for fixed point problems satisfy our conditions. (Received September 16, 2014)