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# ASYMPTOTIC REGULAR CONTRACTIONS ON MULTIPLICATIVE METRIC SPACES

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## ABSTRACT

In this paper, we study on asymptotic regular contraction mapping and multiplicative metric spaces. Asymptotic regular contraction mapping and asymptotic regular cyclic contraction mapping are defined on multiplicative metric spaces. Then, using these mappings new fixed point theorems were obtained and proved in multiplicative metric spaces. Finally, an application is presented to make the subject clearer and more understandable.

**Keywords** Multiplicative metric · Asymptotic regular contraction mapping · Fixed point

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