

STATIONARY POINTS OF SET-VALUED CONTRACTIVE AND NONEXPANSIVE MAPPINGS ON ULTRAMETRIC SPACES

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Abstract. In this paper we show that contractive set-valued mappings on spherically complete ultrametric spaces have stationary (or end) points if they have the approximate stationary point property. We also extend some known fixed point results to nonexpansive set-valued mappings.

Key Words and Phrases: Stationary point, fixed point, approximate stationary point property, ultrametric spaces.

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