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**Hakimeh Mahyar**, Department of Mathematics, Tarbiat Moallem University,  
Tehran 15618, Iran; (mahyar@saba.tmu.ac.ir)

***Quasicompact endomorphisms on natural uniform algebras.***

ABSTRACT. Let  $A$  be a natural uniform algebra on a compact metric space  $X$ . Let  $T$  be an endomorphism of  $A$  induced by a selfmap  $\varphi$  of  $X$ . We estimate the essential norm of  $T$  under a condition on  $\varphi$  and then show that the essential spectral radius of such  $T$  is 1. Using this, we prove some results which show that when a quasicompact endomorphism of natural uniform algebras is power compact. For example, when  $X$  is a connected metric space and the Choquet boundary of  $A$  is  $X$ , we conclude that the essential spectral radius of an endomorphism of  $A$  is either 0 or 1, moreover, every quasicompact endomorphism of  $A$  is power compact.

This is joint work with A. H. Sanatpour.