

**On some radicals of the ring of continuous endomorphisms  
of LCA groups**

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Given an LCA group  $X$ , let  $E(X)$  denote the ring of all continuous endomorphisms of  $X$ . For certain special cases of LCA groups, we shall describe the Jacobson radical of  $E(X)$  in terms of its action on  $X$ . Also, we will present some results concerning the problem of determining the groups  $X$  such that  $E(X)$  contains no nonzero nilpotent elements.