

عنوان مقاله:

Completely Continuous Banach Algebras

محل انتشار:

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خلاصه مقاله:

For a Banach algebra \mathfrak{A} , we introduce $\sim c.c(\mathfrak{A})$, the set of all $\phi \in \mathfrak{A}^*$ such that $\theta_\phi: \mathfrak{A} \rightarrow \mathfrak{A}^*$ is a completely continuous operator, where θ_ϕ is defined by $\theta_\phi(a) = a \cdot \phi$ for all $a \in \mathfrak{A}$. We call \mathfrak{A} a completely continuous Banach algebra if $c.c(\mathfrak{A}) = \mathfrak{A}^*$. We give some examples of completely continuous Banach algebras and a sufficient condition for an open problem raised for the first time by J.E Gale, T.J. Ransford and M. C. White: Is there exist an infinite-dimensional amenable Banach algebra whose underlying Banach space is reflexive? We prove that a reflexive, amenable, completely continuous Banach algebra with the approximation property is trivial.

کلمات کلیدی:

Amenability, Completely continuous, Banach algebra

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