عنوان مقاله:

Local higher derivations on C*-algebras are higher derivations

محل انتشار:

نویسندگان:

Department of Mathematics, Mashhad Branch, Islamic Azad University, Mashhad, Iran - - -

Department of Mathematics, Mashhad Branch, Islamic Azad University, Mashhad, Iran - - -

Department of Pure Mathematics, Ferdowsi University of Mashhad, P.O. Box ۱۱۵۹, Mashhad ۹۱۷۷۵, Iran - - -

خلاصه مقاله:

Let $\mathfrak{A}$ be a Banach algebra. We say that a sequence $\{D_n\}_{n=0}^\infty$ of continuous operators form $\mathfrak{A}$ into $\mathfrak{A}$ is a *local higher derivation* if to each $a\in\mathfrak{A}$ there corresponds a continuous higher derivation $\{d_{a,n}\}_{n=0}^\infty$ such that $D_n(a)=d_{a,n}(a)$ for each non-negative integer n. We show that if $\mathfrak{A}$ is a C^*-algebra then each local higher derivation on $\mathfrak{A}$ is a higher derivation. We also prove that each local higher derivation on a C^*-algebra is automatically continuous.

کلمات کلیدی:

Higher derivation, local higher derivation, Derivation, local derivation

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1561830