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On ℓ -open and ℓ -closed C^ -algebras.*

A separable C^* -algebra A is said to be ℓ -open (or ℓ -closed) when the image of $\text{Hom}(A, B)$ is open (or closed) in $\text{Hom}(A, B/I)$, for all separable C^* -algebras B and ideals I . The concept of semiprojectivity has been used many times in the classification of C^* -algebras. Bruce Blackadar introduced ℓ -open and ℓ -closed C^* -algebras as a superclass of semiprojective C^* -algebras.

In recent work with A. Tikuisis, we characterize ℓ -open and ℓ -closed C^* -algebras and deduce that ℓ -open C^* -algebras are ℓ -closed as conjectured by Blackadar. Moreover, we show that the notion of ℓ -open C^* -algebras and semiprojective C^* -algebras coincide for commutative unital C^* -algebras.