ON AUTOMATIC CONTINUITY OF DERIVATIONS FOR BANACH ALGEBRAS WITH INVOLUTION

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ABSTRACT

We treat the problem of the automatic continuity of the Derivations in Banach algebras provided with an involution σ . To do this, we introduce and study on a unitary algebra provided with an involution a notion which we call σ -semi-simplicity. It is based on the study of certain bilateral ideals called σ -ideals.

Keywords: σ -Algebra, σ -Simple algebra, σ -Semi-Simple Algebra, Automatic Continuity, Separating ideal.