MR1243307 (94h:46105) 46L70 (46K05)

Isidro, J.-M. [Isidro, José María]\(^1\) (E-SACO-FT); Stachó, L. L. (H-SZEG-B)

On weakly and weakly\(^*\) continuous elements in Jordan triples.


The authors investigate weak continuity [resp. weak\(^*\) continuity] of the squaring operation \(x \mapsto \{xa^*x\}\) for elements \(a\) in a complex Jordan Banach algebra [resp. JB\(^*\)-algebra or JBW\(^*\)-algebra]. One can formalize this concept by introducing certain ideals of weakly continuous [resp. weakly\(^*\) continuous] elements. In this paper these ideals are determined for various classes of JB\(^*\)-algebras, for example the space of continuous mappings from a locally compact space to another JB\(^*\)-algebra.

Reviewed by Harald Upmeier

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