
Zbl 0838.17041**Kaup, Wilhelm; Stachó, László****Weakly continuous JB^* -triples.** (English)

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An element a in a JB^* -triple E is said to be weakly continuous when the map $x \mapsto \{xax\}$ is weakly continuous. Weakly continuous JB^* -triples are those where every element is weakly continuous. They are characterized as those JB^* -triples where the group G of all the weakly continuous biholomorphic automorphisms of its open unit ball is transitive [*J. M. Isidro and W. Kaup*, Math. Z. 210, 277-288 (1992; Zbl 0812.46066)]. The authors characterize the closed subspace $\text{Cont}_w(E)$ of the weakly continuous elements when E is a commutative JB^* -triple. In particular they prove that a commutative JB^* -triple is weakly continuous if and only if its spectrum is scattered. In the last section of the paper a characterization of continuous JB^* -triples in terms of representations into Cartan factors is given.

*J.A.Cuenca Mira (Málaga)**Keywords* : weak continuity; JB^* -triple; Jordan-Banach triples; weakly continuous biholomorphic automorphisms; Cartan factors*Classification* :***17C65** Jordan structures on Banach spaces and algebras**46H70** Nonassociative topological algebras