

MR1073432 (91j:46089) [46L70](#) ([47B07](#))**Stachó, L. L.** (D-TBNG); **Isidro, J.-M.** [**Isidro, José María**¹] (E-SACO)**Algebraically compact elements of JBW*-triples.***Acta Sci. Math. (Szeged)* **54** (1990), no. 1-2, 171–190.

JBW*-triples are JB*-triples [cf. W. Kaup, *Math. Z.* **183** (1983), no. 4, 503–529; [MR0710768 \(85c:46040\)](#)] which have their own preduals. JB*-triples are natural generalizations of C^* -algebras. The authors extend the concept “compact operator” from the space-free setting of W^* -algebras to the setting of JBW*-triples.

Let E be a JBW*-triple and let w^* [resp. w, n] be the $\sigma(E, E_*)$ [resp. $\sigma(E, E^*)$, norm] topology. For a linear topology τ on E which is finer than w^* and coarser than n , $a \in E$ is said to be τ -compact if the mapping $a^*: x \mapsto \{xax\}$ is w^* - τ continuous on the closed unit ball of E . One of the main results is the following theorem: $a \in E$ is w -compact if and only if $a = \sum_{n=1}^{\infty} \alpha_n t_n$ for some orthogonal sequence of atoms in E and constants $\alpha_n \downarrow 0$.

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