Isidro, José M.; Stachó, László L.
On the Jordan structure of ternary rings of operators. (English)

The norm-closed subspaces of the spaces $\mathcal{L}(H, K)$ of bounded linear operators between
the complex Hilbert spaces $H$ and $K$ which are closed under the ternary product $[xyz] := xy^*z$ are said to be ternary rings of operators (TROs). The main theorem of the paper
under review asserts that every TRO is isometrically isomorphic to a weak*-dense sub-
TRO of the natural TRO of a direct sum $\bigoplus_{i \in I} \mathcal{L}(H_i, K_i)$. The proofs of the results of
the paper depends strongly on the theory of $JB^*$-triples.

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Keywords: ternary ring; $JB^*$-triple; Jordan structure

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