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On the Jordan structure of ternary rings of operators. (English)

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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 of the theory of JB^* -triples.

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Classification :

- *46K70 Nonassociative topological algebras with an involution
- 17C65 Jordan structures on Banach spaces and algebras
- 47L05 Linear spaces of operators