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On the manifold of tripotents in JB^* -triples. (English summary)

Contemporary geometry and topology and related topics, 251–264, *Cluj Univ. Press*, Cluj-Napoca, 2008.

Summary: “Tripotents are natural generalizations of partial isometries in C^* -algebras to the context of JB^* -triples, that is, complex Banach spaces with symmetric unit ball. We give a survey of the main results from [C.-H. Chu and J. M. Isidro, *Math. Z.* **233** (2000), no. 4, 741–754; [MR1759270 \(2001f:58011\)](#); J. M. Isidro and L. L. Stachó, *J. Math. Anal. Appl.* **304** (2005), no. 1, 147–157; [MR2124654 \(2006a:58008\)](#); Q. J. Math. **57** (2006), no. 4, 505–525; [MR2277598 \(2007m:46093\)](#); *Holomorphic automorphism groups in Banach spaces: an elementary introduction*, North-Holland, Amsterdam, 1985; [MR0779821 \(86f:32037\)](#)] concerning the structure of the tripotents as a direct real-analytic submanifold in a JB^* -triple. We also discuss some recent achievements.”

{For the entire collection see [MR2516499 \(2009m:00012\)](#)}

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