Research Article (5)

Abdelkarim Boua, **Mahmoud M. El-Soufi** and Ahmed Y. Abdelwanis, *On Hom-Jordan algebras and their* $\alpha^k - (a, b, c)$ *type derivations*, Beitr Algebra Geom.

https://doi.org/10.1007/s13366-022-00632-4

Accepted	Published
08 February 2022	10 March 2022

Abstract

In this paper we generalize the results in Huang et al. (Commun Algebra 46:2600–2614, 2018). The current paper studies $\alpha^k - (a, b, c)$ -type derivations of Hom-Jordan algebras. First, we give some properties of Hom-Jordan algebra and homomorphisms of Hom-Jordan algebras. Second, we get on some properties of α^k -centroids and α^k -quasicentroids of Hom-Jordan algebras. Finally, we study quasiderivations and $\alpha^k - (a, b, c)$ -quasiderivations of Hom-Jordan algebras.