

Some characterizations of Hom-Leibniz algebras

A. Nourou Issa

(Submitted on 8 Nov 2010)

Some basic properties of Hom-Leibniz algebras are found. These properties are the Hom-analogue of corresponding well-known properties of Leibniz algebras. Considering the Hom-Akivis algebra associated to a given Hom-Leibniz algebra, it is observed that the Hom-Akivis identity leads to an additional property of Hom-Leibniz algebras, which in turn gives a necessary and sufficient condition for Hom-Lie admissibility of Hom-Leibniz algebras. A necessary and sufficient condition for Hom-power associativity of Hom-Leibniz algebras is also found.

Comments: LaTeX2e, no figure

Subjects: **Rings and Algebras (math.RA)**

MSC classes: 17A20, 17A30, 17A32, 17D99

Cite as: [arXiv:1011.1731v1](#) [math.RA]

Submission history

From: A. Nourou Issa [[view email](#)]

[v1] Mon, 8 Nov 2010 08:51:33 GMT (6kb)

[Which authors of this paper are endorsers?](#)

Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

math.RA

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1011](#)

Change to browse by:

[math](#)

References & Citations

- [NASA ADS](#)

Bookmark([what is this?](#))

