



Simple G -graded algebras and their polynomial identities

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(Submitted on 23 Jul 2011 (v1), last revised 15 Nov 2011 (this version, v2))

Let G be any group and F an algebraically closed field of characteristic zero. We show that any G -graded finite dimensional associative G -simple algebra over F is determined up to a G -graded isomorphism by its G -graded polynomial identities. This result was proved by Koshlukov and Zaicev in case G is abelian.

Comments: 23 pages

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

MSC classes: 16R10, 16W50

Cite as: **arXiv:1107.4713 [math.RA]**

(or **arXiv:1107.4713v2 [math.RA]** for this version)

Submission history

From: Eli Aljadeff [[view email](#)]

[v1] Sat, 23 Jul 2011 22:11:13 GMT (19kb)

[v2] Tue, 15 Nov 2011 17:15:08 GMT (26kb)

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