



On twisted conjugacy classes of type D in sporadic simple groups

F. Fantino, L. Vendramin

(Submitted on 1 Jul 2011 (v1), last revised 21 Sep 2012 (this version, v4))

We classify twisted conjugacy classes of type D associated to the sporadic simple groups. This is an important step in the program of the classification of finite-dimensional pointed Hopf algebras with non-abelian coradical. As a by-product we prove that every complex finite-dimensional pointed Hopf algebra over the group of automorphisms of M12, J2, Suz, He, HN, T is the group algebra. In the appendix we improve the study of conjugacy classes of type D in sporadic simple groups.

Comments: 15 pages, 6 tables. Twisted conjugacy classes of type D in sporadic simple groups are now completely classified. Several improvements related to conjugacy classes in sporadic simple groups are included in the appendix

Subjects: **Quantum Algebra (math.QA)**

Cite as: [arXiv:1107.0310](#) [math.QA]
(or [arXiv:1107.0310v4](#) [math.QA] for this version)

Submission history

From: Leandro Vendramin [[view email](#)]

[v1] Fri, 1 Jul 2011 19:36:41 GMT (7kb)

[v2] Thu, 25 Aug 2011 23:24:57 GMT (11kb)

[v3] Tue, 17 Apr 2012 10:17:44 GMT (15kb)

[v4] Fri, 21 Sep 2012 19:50:05 GMT (15kb)

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

Link back to: [arXiv](#), [form interface](#), [contact](#).

Download:

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

Current browse context:

math.QA

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

[new](#) | [recent](#) | [1107](#)

Change to browse by:

[math](#)

References & Citations

- [NASA ADS](#)

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

