

Cornell University Library

Search or Article-id (Help | Advanced search) arXiv.org > math > arXiv:1107.0702 - Go! All papers Mathematics > Algebraic Geometry Download: PDF A remarkable contraction of PostScript Other formats semisimple Lie algebras Current browse context: math.AG Dmitri Panyushev, Oksana Yakimova < prev | next > new | recent | 1107 (Submitted on 4 Jul 2011) Change to browse by: Recently, E.Feigin introduced a very interesting contraction \$\mathfrak q\$ of a math semisimple Lie algebra \$\mathfrak g\$ (see arXiv:1007.0646 and arXiv:1101.1898). We prove that these non-reductive Lie algebras retain **References & Citations** good invariant-theoretic properties of \$\mathfrak g\$. For instance, the NASA ADS algebras of invariants of both adjoint and coadjoint representations of \$\mathfrak q\$ are free, and also the enveloping algebra of \$\mathfrak q\$ is a Bookmark(what is this?) free module over its centre. 📃 🕸 X 🚾 🖬 🖬 😴 Science WISE Comments: 13 pages Subjects: Algebraic Geometry (math.AG)

MSC classes: 14L30, 17B20 Cite as: arXiv:1107.0702 [math.AG] (or arXiv:1107.0702v1 [math.AG] for this version)

## **Submission history**

From: Dmitri Panyushev [view email] [v1] Mon, 4 Jul 2011 18:38:56 GMT (18kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.