

Cornell University Library We gratefully acknowledge support from the Simons Foundation and member institutions

Search or Article-id (Help | Advanced search) arXiv.org > math > arXiv:1107.1506 All papers Go! Ŧ Mathematics > Rings and Algebras Download: PDF **On representations of Clifford** PostScript Other formats algebras of ternary cubic forms Current browse context: math.RA Emre Coskun, Rajesh S. Kulkarni, Yusuf Mustopa < prev | next > new | recent | 1107 (Submitted on 7 Jul 2011) Change to browse by: In this article, we provide an overview of a one-to-one correspondence math between representations of the generalized Clifford algebra \$C\_f\$ of a math.AG ternary cubic form \$f\$ and certain vector bundles (called Ulrich bundles) on a cubic surface \$X\$. We study general properties of Ulrich bundles, and using a **References & Citations** recent classification of Casanellas and Hartshorne, deduce the existence of NASA ADS irreducible representations of \$C\_f\$ of every possible dimension. Bookmark(what is this?) 📃 💿 X 🔽 🖬 in 🚽 🔛 💇 Comments: 9 pages, to appear in proceedings for the conference "New Trends in Noncommutative Algebra: A Conference in Honor Science WISE of Ken Goodearl's 65th Birthday" Subjects: Rings and Algebras (math.RA); Algebraic Geometry (math.AG) MSC classes: 16G50, 14J60 Cite as: arXiv:1107.1506 [math.RA] (or arXiv:1107.1506v1 [math.RA] for this version)

## **Submission history**

From: Rajesh Kulkarni [view email] [v1] Thu, 7 Jul 2011 20:08:58 GMT (12kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.