

arXiv.org > math > arXiv:1107.4284

Mathematics > Commutative Algebra

Search or Article-id (Help | Advance All papers

Download:

- PDF
- PostScript
- Other formats

Current browse cont math.AC

< prev | next >

new | recent | 1107

Change to browse b

math

math.AG

References & CitatioNASA ADS

Bookmark(what is this?)

estimates for the algebraic invariants of I(X). Comments: J. Algebra Appl., to appear Subjects: **Commutative Algebra (math.AC)**; Algebraic Geometry (math.AG) MSC classes: 13P25, 14G50, 94B27 Journal reference: J. Algebra Appl. 11 (2012), no. 4, 1250072 Cite as: arXiv:1107.4284 [math.AC] (or arXiv:1107.4284v2 [math.AC] for this version)

On the vanishing ideal of an algebraic toric

set and its parameterized linear codes

Let K be a finite field and let X be a subset of a projective space, over the field K, which is

parameterized by monomials arising from the edges of a clutter. We show some estimates for the

degree-complexity, with respect to the revlex order, of the vanishing ideal I(X) of X. If the clutter is uniform, we classify the complete intersection property of I(X) using linear algebra. We show an

upper bound for the minimum distance of certain parameterized linear codes along with certain

(Submitted on 21 Jul 2011 (v1), last revised 16 Sep 2011 (this version, v2))

Eliseo Sarmiento, Maria Vaz Pinto, Rafael H. Villarreal

Submission history

From: Rafael Villarreal H [view email] [v1] Thu, 21 Jul 2011 14:21:44 GMT (17kb) [v2] Fri, 16 Sep 2011 00:32:29 GMT (17kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.