Cornell University Library

We gratefully acknowledge support from
the Simons Foundation
and member institutions

arXiv.org > math > arXiv:1107.4128

Search or Article-id

(Help | Advanced search)

All papers | Go!

Mathematics > Algebraic Geometry

On the Demailly-Semple jet bundles of hypersurfaces in $\CP^3$

Jingzhou Sun

(Submitted on 20 Jul 2011 (v1), last revised 21 Oct 2011 (this version, v5))

Let X be a smooth hypersurface of degree d in $\CP^3$. By totally algebraic calculations, we prove that on the third Demailly-Semple jet bundle X_3 of X, the bundle $\ocal_{X_3}(1)$ is big for $d\geq 11$, and that on the fourth Demailly-Semple jet bundle X_4 of X, the bundle $\ocal_{X_4}(1)$ is big for $d\geq 10$, improving a recent result of Diverio.

Submission history

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.