Cornell University Library

We gratefully acknowledge support from the Simons Foundation and member institutions

arXiv.org > math > arXiv:1107.5946

Search or Article-id

(Help | Advanced search)

All papers   Go!

Mathematics > Algebraic Geometry

A type of the Lefschetz hyperplane section theorem on \Q-Fano 3-folds with Picard number one and $1/2(1,1,1)$-singularities

Nam-Hoon Lee

(Submitted on 29 Jul 2011)

We prove a type of the Lefschetz hyperplane section theorem on Q-Fano 3-folds with Picard number one and $1/2(1,1,1)$-singularities by using some degeneration method. As a byproduct, we obtain a new example of a Calabi-Yau 3-fold X with Picard number one whose invariants are $$(H_X^3, c_2(X) \cdot H_X, {e}(X)) = (8, 44, -88),$$ where H_X, $e(X)$ and $c_2(X)$ are an ample generator of $\Pic(X)$, the topological Euler characteristic number and the second Chern class of X respectively.

Comments: 9 pages
Subjects: **Algebraic Geometry (math.AG)**
Cite as: **arXiv:1107.5946** **[math.AG]**
             (or **arXiv:1107.5946v1** **[math.AG]** for this version)

Submission history

From: Nam-Hoon Lee [view email]
[v1] Fri, 29 Jul 2011 12:18:39 GMT (8kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.