Cornell University Library

We gratefully acknowledge support from the Simons Foundation and member institutions

arXiv.org > math > arXiv:1206.1649

Search or Article-id

(Help | Advanced search)

All papers   Go!

Mathematics > Algebraic Geometry

Automorphism groups of Calabi-Yau manifolds of Picard number two

Keiji Oguiso

(Submitted on 8 Jun 2012 (v1), last revised 18 Jun 2012 (this version, v2))

We prove that the automorphism group of an odd dimensional Calabi-Yau manifold of Picard number two is always a finite group. This makes a sharp contrast to the automorphism groups of K3 surfaces and hyperk\"ahler manifolds and birational automorphism groups, as we shall see. We also clarify the relation between finiteness of the automorphism group (resp. birational automorphism group) and the rationality of the nef cone (resp. movable cone) for a hyperk\"ahler manifold of Picard number two. We will also discuss a similar conjectual relation together with exsistence of rational curve, expected by the cone conjecture, for a Calabi-Yau threefold of Picard number two,

Comments:	16 printed pages, two more references are added
Subjects:	**Algebraic Geometry (math.AG)**
Cite as:	**arXiv:1206.1649** [math.AG]
	(or **arXiv:1206.1649v2** [math.AG] for this version)

Submission history

From: Keiji Oguiso [view email]

[v1] Fri, 8 Jun 2012 02:08:57 GMT (17kb)

[v2] Mon, 18 Jun 2012 05:58:46 GMT (17kb)

Which authors of this paper are endorsers?

Download:

- PDF
- PostScript
- Other formats

Current browse context:

math.AG

< prev | **next >**

new | recent | 1206

Change to browse by:

math

References & Citations

- NASA ADS

Bookmark (what is this?)

ScienceWISE