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On a conjecture of Oguiso about rational curves on Calabi-Yau threefolds

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(Submitted on 17 Jul 2011 (v1), last revised 14 Mar 2012 (this version, v2))

Let X be a Calabi-Yau threefold. We show that if there exists on X a non-zero nef non-ample divisor then X contains a rational curve, provided its second Betti number is greater than 4.

Comments:	13 pages, 1 figure, final version. To appear on Comment. Math. Helv
Subjects:	**Algebraic Geometry (math.AG)**; Complex Variables (math.CV)
MSC classes:	14J32, 14E30 (Primary) 14G05, 32Q45 (Secondary)
Cite as:	**arXiv:1107.3337 [math.AG]**
	(or **arXiv:1107.3337v2 [math.AG]** for this version)

Submission history

From: Simone Diverio [view email]

[v1] Sun, 17 Jul 2011 21:51:04 GMT (23kb,D)

[v2] Wed, 14 Mar 2012 16:17:42 GMT (23kb,D)

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