Finiteness of K3 surfaces and the Tate conjecture

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(Submitted on 6 Jul 2011 (v1), last revised 22 Jun 2012 (this version, v4))

Given a finite field k of characteristic at least 5, we show that the Tate conjecture holds for K3 surfaces defined over the algebraic closure of k if and only if there are only finitely many K3 surfaces over each finite extension of k.

Comments:	20 pages, major clarifications and corrections to earlier versions. Comments still welcome anytime
Subjects:	**Algebraic Geometry (math.AG)**; Number Theory (math.NT)
MSC classes:	14G15, 14G10, 14J28
Cite as:	**arXiv:1107.1221 [math.AG]**
	(or **arXiv:1107.1221v4 [math.AG]** for this version)

Submission history

From: Max Lieblich [view email]
[v1] Wed, 6 Jul 2011 18:48:56 GMT (21kb)
[v2] Mon, 1 Aug 2011 19:57:45 GMT (21kb)
[v3] Fri, 2 Dec 2011 18:49:33 GMT (22kb)
[v4] Fri, 22 Jun 2012 16:35:53 GMT (24kb)

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