Mathematics > Algebraic Geometry

A note on Griffiths infinitesimal invariant for curves

Emanuele Raviolo

(Submitted on 27 Jul 2011 (v1), last revised 24 Oct 2012 (this version, v2))

Given a generic curve of genus $g\geqslant 4$ and a smooth point $L\in W_{g-1}^{1}(C)$, whose linear system is base-point free, we consider the Abel-Jacobi normal function associated to $L^{\otimes 2}\otimes \omega_{C}^{-1}$, when (C,L) varies in moduli. We prove that its infinitesimal invariant reconstruct the couple (C,L). When $g=4$, we obtain the generic Torelli theorem proved by Griffiths.

Comments:	revised version according to referee's suggestions. Annali di Matematica Pura e Applicata 2012; the final publication is available at this http URL
Subjects:	**Algebraic Geometry (math.AG)**
DOI:	10.1007/s10231-012-0290-x
Cite as:	**arXiv:1107.5603 [math.AG]**
	(or **arXiv:1107.5603v2 [math.AG]** for this version)

Submission history

From: Emanuele Raviolo [view email]
[v1] Wed, 27 Jul 2011 23:02:22 GMT (10kb)
[v2] Wed, 24 Oct 2012 10:37:56 GMT (10kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

Download:

Current browse cont

math.AG
< prev | **next >**
new | recent | 1107

Change to browse b

math

References & Citatio

Bookmark(what is this?)

ScienceWISE