

Cornell University Library We gratefully acknowledge support from the Simons Foundation and member institutions

Search or Arti

arXiv.org > math > arXiv:1107.3433

Mathematics > Algebraic Geometry

A Lower Bound for the Number of Group Actions on a Compact Riemann Surface

James W. Anderson, Aaron Wootton

(Submitted on 18 Jul 2011 (v1), last revised 27 Oct 2011 (this version, v2))

We prove that the number of distinct group actions on compact Riemann surfaces of a fixed genus \$\sigma \geq 2\$ is at least quadratic in \$\sigma\$. We do this through the introduction of a coarse signature space, the space \$\mathcal{K}_\sigma\$ of {\em skeletal signatures} of group actions on compact Riemann surfaces of genus \$\sigma\$. We discuss the basic properties of \$\mathcal{K}_\sigma\$ and present a full conjectural description.

Subjects:Algebraic Geometry (math.AG); Geometric Topology
(math.GT)MSC classes:57M60, 30F20, 14H37Cite as:arXiv:1107.3433 [math.AG]
(or arXiv:1107.3433v2 [math.AG] for this version)

Submission history

From: James W. Anderson [view email] [v1] Mon, 18 Jul 2011 13:34:36 GMT (15kb) [v2] Thu, 27 Oct 2011 08:13:16 GMT (14kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

cle-id	(<u>Help</u> <u>Advanced search</u>)
	All papers 🚽 Go!
	Download: • PDF • PostScript • Other formats
	Current browse context: math.AG < prev next > new recent 1107
	Change to browse by: math math.GT
	References & Citations NASA ADS
	Bookmark(what is this?)