

linkages

arXiv.org > math > arXiv:1107.0126

Mikhail Khristoforov, Gaiane Panina

Mathematics > Metric Geometry

## We gratefully acknowledge supp the Simons Fo and member ins

Search or Article-id

(<u>Help</u> | <u>Advance</u> All papers

## Download:

- PDF
- PostScript
- Other formats

Current browse cont math.MG

< prev | next >

new | recent | 1107

Change to browse b

References & Citatio

NASA ADS

Bookmark(what is this?)

The basic object of the paper is the moduli space  $M_{2,3}(L)$  of a closed polygonal linkage either in  $\lambda B^{2}(L)$  or in  $\lambda B^{3}(R)^{3}$ . As was originally suggested by G. Khimshiashvili, the space  $M_{2}(L)$  is equipped with the oriented area function A, whereas (as is suggested in the paper)  $M_{3}(L)$  is equipped with the vector area function S. The latter are generically Morse functions, whose critical points have a nice description. In the preprint, we define a  $\det S$ , which the action of some group generated by edge transpositions) on the space  $M_{2,3}(L)$  which preserves the functions A and S and the Morse points. We prove that the commutant of the group acts trivially, present some computer experiments and formulate a conjecture.

Swap action on moduli spaces of polygonal

Subjects:Metric Geometry (math.MG)MSC classes:51F99Cite as:arXiv:1107.0126 [math.MG]<br/>(or arXiv:1107.0126v2 [math.MG] for this version)

(Submitted on 1 Jul 2011 (v1), last revised 18 Nov 2011 (this version, v2))

## **Submission history**

From: Gayane Panina Mrs [view email] [v1] Fri, 1 Jul 2011 07:32:42 GMT (202kb) [v2] Fri, 18 Nov 2011 11:32:00 GMT (200kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.