

Mathematics > Representation Theory

On The Automorphisms of Cluster Algebras

Ibrahim Saleh

(Submitted on 3 Nov 2010)

Let $A_n(S)$ be a coefficient free cluster algebra over a field K . A cluster automorphism is an element of $\text{Aut}_{K(t_1, t_2, \dots, t_n)}$ which leaves the set of all cluster variables, ξ_S , invariant. The group of all such automorphisms is studied in terms of the orbits of the symmetric group action on the set of all seeds S and the cluster pattern.

Subjects: **Representation Theory (math.RT)**

Cite as: [arXiv:1011.0894v1](#) [math.RT]

Submission history

From: Ibrahim Sale [view email]

[v1] Wed, 3 Nov 2010 14:23:51 GMT (236kb)

Which authors of this paper are endorsers?

Link back to: [arXiv](#), [form interface](#), [contact](#).

Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

math.RT

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1011](#)

Change to browse by:

[math](#)

References & Citations

- [NASA ADS](#)

Bookmark (what is this?)

