

CLUSTER AUTOMORPHISMS

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ABSTRACT. This is a joint work with Ralf Schiffler and Vasilisa Shramchenko. We introduce the notion of cluster automorphism of a given cluster algebra as a \mathbb{Z} -automorphism of the cluster algebra, that sends a cluster to another and commutes with mutations. We study the group of cluster automorphisms in detail for acyclic cluster algebras and, cluster algebras from surfaces, and we compute this group explicitly for the Dynkin and the Euclidean types.

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