

Integrability in cluster algebra theory

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Cluster algebra is a commutative algebra with distinguished set of generators forming a nice combinatorial structure. They were introduced by Fomin and Zelevinsky in 2001 as a tool to describe canonical basis by Lusztig. Cluster algebras are equipped with compatible Poisson structure. We will discuss few cases when this construction lead to discrete integrable dynamical systems.

This is a joint work with M. Gekhtman, S. Tabachnikov, and A. Vainshtein.

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