

[Usnich, A. V.](#)

Noncommutative cluster mutations. (Russian. English summary) [Zbl 1267.16012](#)
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Summary: Non-commutative cluster mutations are defined and studied. For a particular mutation matrix it is proved that the iteration of cluster mutation is assigned by non-commutative Laurent polynomials, and this gives an independent proof of the Laurent phenomenon in the commutative case.

MSC:

- [16G20](#) Representations of quivers and partially ordered sets
- [13F60](#) Cluster algebras
- [05E18](#) Group actions on combinatorial structures
- [16S38](#) Rings arising from noncommutative algebraic geometry
- [37F10](#) Dynamics of complex polynomials, rational maps, entire and meromorphic functions; Fatou and Julia sets

Cited in **3** Documents

Keywords:

[cluster mutations](#); [noncommutative Laurent polynomials](#); [iterations of rational maps](#)