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**Akaki Tikaradze\***, akaki.tikaradze@utoledo.edu. *Cherednik algebras as fixed rings.*

Given the spherical subalgebra of a rational Cherednik algebra, we consider a natural question whether it can be a fixed ring of a domain under a nontrivial finite group automorphisms. We pay particular attention for the case of Cherednik algebras associated to  $S_n$  and generalized Weyl algebras. (Received January 17, 2021)