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Title:	Automorphism groups of quandles and related groups
Authors:	Singh, Mahender (/jspui/browse?type=author&value=Singh%2C+Mahender)
Keywords:	Automorphisms Quandles Coincide
Issue Date:	2019
Publisher:	Springer Link
Citation:	Monatshefte fur Mathematik, 189(1).
Abstract:	In this paper we study various questions concerning automorphisms of quandles. For a conjugation quandle $Q = \text{Conj}(G)$ of a group G we determine several subgroups of $\text{Aut}(Q)$ and find necessary and sufficient conditions for these subgroups to coincide with the whole group $\text{Aut}(Q)$. In particular, we prove that $\text{Aut}(\text{Conj}(G)) = Z(G) \rtimes \text{Aut}(G)$ if and only if either $Z(G) = 1$ or G is one of the groups \mathbb{Z}_2 , \mathbb{Z}_{22} or \mathbb{Z}_3 . For a big list of Takasaki quandles $T(G)$ of an abelian group G with 2-torsion we prove that the group of inner automorphisms $\text{Inn}(T(G))$ is a Coxeter group. We study automorphisms of certain extensions of quandles and determine some interesting subgroups of the automorphism groups of these quandles. Also we classify finite quandles Q with k -transitive action of $\text{Aut}(Q)$ for $k \geq 3$.
Description:	Only IISERM authors are available in the record.
URI:	https://link.springer.com/article/10.1007/s00605-018-1202-y (https://link.springer.com/article/10.1007/s00605-018-1202-y) http://hdl.handle.net/123456789/2077 (http://hdl.handle.net/123456789/2077)
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