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Title:	Classification of flat connected quandles
Authors:	Singh, Mahender (/jspui/browse?type=author&value=Singh%2C+Mahender)
Keywords:	Automorphism of quandle Central automorphism Connected quandle Flat quandle
Issue Date:	2016
Publisher:	World Scientific
Citation:	Journal of Knot Theory and its Ramifications,25(13).
Abstract:	Let A be an additive abelian group. Then the binary operation $a*b=2b-a$ gives a quandle structure on A , denoted by $T(A)$, and called the Takasaki quandle of A . Viewing quandles as generalization of Riemannian symmetric spaces, Ishihara and Tamaru [Flat connected finite quandles, to appear in Proc. Amer. Math. Soc. (2016)] introduced flat quandles, and classified quandles which are finite, flat and connected. In this note, we classify all flat connected quandles. More precisely, we prove that a quandle X is flat and connected if and only if $X \cong T(A)$, where A is a 2-divisible group.
URI:	https://www.worldscientific.com/doi/10.1142/S0218216516500711 (https://www.worldscientific.com/doi/10.1142/S0218216516500711) http://hdl.handle.net/123456789/2422 (http://hdl.handle.net/123456789/2422)
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