

We can color knots by various finite quandles and check if they have non-trivial coloring. If so, we can say that the knot is not an unknot. However, we will focus on quandles that always give trivial coloring. It will turn out that they have interesting algebraic properties. In this work, we will show that a quandle gives a trivial coloring for each knot if and only if the quandle is reductive, which is exactly when the coloring invariant is Vassiliev's. We will make a similar characterization for links. That is, a quandle gives a trivial coloring for each link if and only if it is a trivial quandle.