

1116-57-1429

**W. Edwin Clark** and **Masahico Saito\*** ([saito@usf.edu](mailto:saito@usf.edu)). *Sequences of quandle extensions and cocycle knot invariants.*

Quandle 2-cocycles define invariants of classical and virtual knots, and extensions of quandles. We show that the quandle 2-cocycle invariant is trivial for classical knots when the corresponding extension satisfies certain algebraic condition. Specific examples are presented from the list of quandles. In particular, quandle cocycle invariants can be used to detect non-classicality of some virtual knots. (Received September 19, 2015)