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Blake Mellor* (blake.mellor@lmu.edu). *Finite quandles of knots, links and spatial graphs*. Preliminary report.

The *fundamental quandle* of a knot is a complete invariant for tame, unoriented knots. However, the structure of the quandle can be extremely complex, so it can be useful to consider quotients of the quandle. The *n-quandle* of a knot, link or spatial graph is the result of adding relations $x^y = x$ to the fundamental quandle, where x and y are any elements of the fundamental quandle. For some knots and links, the *n-quandle* is finite; Hoste and Shanahan provided a complete list of these links, proving a conjecture of Przytycki. In this talk, we will review the progress on providing explicit descriptions of the finite *n-quandles* for these links. We will also look at possible extensions to identify finite quandles associated to spatial graphs. (Received August 22, 2019)