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A Galois-theoretic approach to the covering theory of quandles

The purpose of this work is to clarify the relationship between the algebraic notion of quandle covering introduced by M. Eisermann [1] and the categorical notion of covering arising from Galois theory [3]. A crucial role is played by the adjunction between the variety of quandles and its subvariety of trivial quandles.

References:

- [1] M. Eisermann, Quandle Coverings and their Galois Correspondence, *arXiv:math/0612459v3 [math.GT]* (2007).
- [2] V. Even, A Galois-Theoretic Approach to the Covering Theory of Quandles, to appear in *Appl. Categorical Structures*.
- [3] G. Janelidze, G. M. Kelly, Galois theory and a general notion of central extension, *J. Pure Appl. Algebra* 97, 135-161 (1994).