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Quasigroup Factorization Theorems, a non-associative adventure. Preliminary report.

If we study quasigroups categorically, then we need to ask what the morphisms should be. In this talk we will discuss the possible candidates for the morphisms in a quasigroup category: first that of J.D.H. Smith in 'Quasigroup homotopies, semisymmetrization, and reversible automata', then that suggested by A.A.Albert in 'Quasigroups I'. We will discuss the categories given by these sets of morphisms and their relationship to each other. We will also discover some interesting factorizations of homotopies hidden in Quasigroups I and discuss the factorization of homotopies given by J. D. H. Smith. (Received September 05, 2010)