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On isotopisms of commutative semifields

Commutative semifields are objects defined by the same axioms as a field but without requiring associativity of multiplication. Commutative semifields define optimal objects in projective geometry and cryptographic Boolean functions. Construction of infinite classes of commutative semifields of odd order has been a hard task and only a handful of these constructions is known. However, a natural construction method might be hidden in the very notion of isotopism, the equivalence relation used for classification of semifields.