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On commutative loops of order pq with metacyclic inner mapping group and trivial center

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Abstract: Using a construction of commutative loops with metacyclic inner mapping group and trivial center described by A. Drápal, we enumerate presumably all such loops of order pq , for p and q primes.

Keywords: commutative loops, construction of loops, matrices over finite fields, quadratic extensions

AMS Subject Classification: 20N05 Quasigroups and loops

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