

## Extensions of $n$ -groups by $m$ -groups

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### ABSTRACT.

By juxtaposition of a  $(n + 1)$ -operation with a  $(m + 1)$ -operation on  $G$  we obtain a  $(m + n + 1)$ -operation on  $G$ . In this paper we study the reciprocal associativity of these operations and the conditions that the obtained operation determine on  $G$  a  $(m + n + 1)$ -group.

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