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*Compositions with pairwise relatively prime summands within a restricted setting,*

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**Abstract**

The paper studies the counting function

$$R_2(n, k) = \sum_{\substack{a_1+a_2+\dots+a_k=n \\ (a_i, a_j)=1 \\ i \neq j}} 1, a_i \geq 1, k \geq 2$$

with  $a_i, n$  and  $k$  positive integers and establishes a relationship between  $R_2(n, k)$  and  $P_2(n, k)$  where

$$P_2(n, k) = \sum_{\substack{a_1+a_2+\dots+a_k=n \\ 1 \leq a_1 \leq a_2 \leq \dots \leq a_k \leq n \\ (a_i, a_j)=1 \\ i \neq j}} 1, a_i \geq 1, k \geq 2$$

with  $a_i, n, k$  positive integers.