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On the asymmetric divisor problem with congruence conditions

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Abstract: A certain generalized divisor function $d^*(n)$ is studied which counts the number of factorizations of a natural number n into integer powers with prescribed exponents under certain congruence restrictions. An Ω -estimate is established for the remainder term in the asymptotic for its Dirichlet summatory function.

Keywords: multidimensional asymmetric divisor problems

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