---

**Zbl 278.10047**

**Erdős, Paul; Babu, Gutti Jogesh; Ramachandra, K.**

*An asymptotic formula in additive number theory.* (In English)

**Acta Arith. 28, 405-412 (1976). [0065-1036]**

Let $\{b_j\}$ be a sequence of natural numbers satisfying $3 \leq b_1 < b_2 < b_3 \ldots, (b_i, b_j) = 1$ if $i \neq j$ and also let $\sum b_i^{-1}$ be convergent. Let $\{d_j\}$ be the sequence of all natural numbers not divisible by any $b_j$. Then given any natural number $n$ an asymptotic formula for the number of solutions of $n = p+d$ is developed where $p$ runs through primes and $d$ through the number of the sequence $\{d_j\}$. Some other questions which deal with relaxation of conditions on $\{b_j\}$ are also discussed.

Classification:
11P32 Additive questions involving primes