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Asymptotic Formulae

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Abstract:

Let $t_{s,n}$ be the <i>n</i> -th positive integer number which can be written as a
power $p^t, \ t \geq s,$ of a prime p ($s \geq 1$ is fixed). Let $\pi_s(x)$ denote the
number of prime powers $p^t, \ t \geq s,$ not exceeding $\ x.$ We study the
asymptotic behaviour of the sequence $t_{s,n}$ and of the function $\pi_s(x)$. We
prove that the sequence $t_{s,n}$ has an asymptotic expansion comparable to
that of p_n (the Cipolla's expansion).



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