

**Year: 2006****Vol.: 68****Fasc.: 3-4**

Title: On the maximal and minimal exponent of the prime power divisors of integers

Author(s): Imre Kátaí and M. V. Subbarao

For some integer n and prime p let $\nu_p(n)$ be the largest nonnegative integer for which $p^{\nu_p(n)}$ is a divisor of n . Let $h(n) = \min_{p|n} \nu_p(n)$, $H(n) = \max_{p|n} \nu_p(n)$. The mean value of h , H over some subsets of integers is investigated.

Address:

Imre Kátaí
Department of Computer Algebra
Eötvös Loránd University
Pázmány Péter sétány 1/C
H-1117 Budapest
Hungary
E-mail: katai@compalg.inf.elte.hu

Address:

M. V. Subbarao
Department of Mathematics
University of Alberta
Edmonton, Alberta T6G 2G1
Canada
E-mail: m.v.subbarao@ualberta.ca