

Zbl 107.26601

Erdős, Pál; Prachar, K.

Sätze und Probleme über p^k/k .

Theorems and problems on p^k/k . (In German)

Abh. Math. Semin. Univ. Hamb. 25, 251-256 (1962). [0025-5858]

The main result is the following: if p_k stands for the k^{th} prime, then $c_1 \log^2 x \leq \sum_{p_k \leq x} \left| \frac{p_{k+1}}{k+1} - \frac{p_k}{k} \right| \leq c_2 \log^2 x$ with some positive constants c_1, c_2 . The proof is elementary and appeals only once to an estimate obtainable by Brun's method.

S.Knapowski

Classification:

11N05 Distribution of primes

00A07 Problem books