

Zbl 016.20103

Erdős, Paul

On the sum and difference of squares of primes. (In English)

J. London Math. Soc. 12, 133-136 (1937).

The author proves that, for suitable m , the equation $m = p^2 - q^2$ (p, q primes) has more than $\exp\left(\frac{c \log m}{\log \log m}\right)$ solutions, and that, for suitable n , $n = p^2 + q^2$ (p, q prime) has more than $\exp\left(\frac{c \log n}{(\log \log n)^2}\right)$ solutions. The proof is similar to that of the author's theorem as to representations by the sum of k k -th powers [J. London Math. Soc. 11, 133-136 (1936; Zbl 013.39003)].

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Classification:

11P32 Additive questions involving primes