

**Zbl 021.10602**

**Erdős, Pál**

*On the easier Waring problem for powers of primes. II.* (In English)

**Proc. Camb. Philos. Soc. 35, 149-165 (1939).**

The author proves that the density of each of the sets of integers

$$p_1^2 + p_2^2 - p_3^2, \quad \sum_{\nu=1}^4 p_\nu^3 - \sum_{\mu=1}^4 q_\mu^3, \quad \sum_{\nu=1}^{2^l} \varepsilon_\nu p_\nu^l \quad (\varepsilon_\nu = \pm 1)$$

is positive, where the  $p$  and the  $q$  are primes. It follows that a constant  $c_l$  exists such that every integer is the sum of at most  $c_l$  positive and negative  $l$ -th powers of primes. (I. see Zbl 016.10202)

*Wright (Aberdeen)*

Classification:

11P32 Additive questions involving primes