

Zbl 868.05009

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Dense difference sets and their combinatorial structure. (In English)

Graham, Ronald L. (ed.) et al., The mathematics of Paul Erdős. Vol. I. Berlin: Springer, Algorithms Comb. 13, 165-175 (1997). [ISBN 3-540-61032- 4/hbk]

Given a set B of positive integers, the “difference set” of B is defined in the paper as the set of differences $D(B) = \{x-y \mid x, y \in B, x > y\}$. It is shown that if B has positive upper density then $D(B)$ has rich additive and multiplicative structure.

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Classification:

05B10 Difference sets

Keywords:

difference sets