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Sets of sums and differences. (English) [Zbl 0548.10038](#)

Séminaire de théorie des nombres, Paris 1982-83, Prog. Math. 51, 267-273 (1984).

[For the entire collection see [Zbl 0541.00003](#).]

This is a short survey about problems on sumsets and difference sets. The only new result is the construction of a set H of natural numbers which has $O(x^{1/2+\epsilon})$ elements up to x and which is sum-intersective, that is every set of positive density has two elements the sum of which belongs to H .

MSC:

[11B05](#) Density, gaps, topology

[11B13](#) Additive bases, including sumsets

[05B10](#) Combinatorial aspects of difference sets (number-theoretic, group-theoretic, etc.)

Cited in **6** Documents

Keywords:

[survey](#); [sumsets](#); [difference sets](#); [sum-intersective](#)