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Partitions of the set of nonnegative integers with the same representation functions.

For a set of nonnegative integers A let $R_A(n)$ denote the number of unordered representations of the integer n as the sum of two different terms from the set A . Starting from a problem of Sidon the investigation of the additive representation functions has begun in the middle of the twentieth century by Erdős and Turán. In my talk I focus on that partitions of the set of natural numbers into two sets such that the corresponding representation functions are identical. We solve two recent problems of Chen and Lev. This is a joint work with Csaba Sándor.