

Zbl 376.10011

Alladi, K.; Erdős, Paul; Hoggatt, V.E.jun.

On additive partitions of integers. (In English)

Discrete Math. **22**, 201-211 (1978). [0012-365X]

Let $U = \{u_n\}$, $u_{n+2} = u_{n+1} + u_n$, $n \geq 1$, $u_1 = 1$, $u_2 > u_1$, be a linear recurrence sequence. It is shown that the set of positive integers can be partitioned uniquely into two disjoint subsets such that the sum of any two distinct numbers from any one set can never be in U . Generalizations, other related problems and graph theoretic interpretation are also discussed.

M.S.Cheema

Classification:

11B37 Recurrences

11P81 Elementary theory of partitions

05A17 Partitions of integres (combinatorics)