

Year: 2008

Vol.: 73

Fasc.: 3-4

Title: On the monotonicity of an additive representation function

Author(s): Sándor Z. Kiss

Let $\mathcal{A} = \{a_1, a_2, \dots\}$ ($a_1 < a_2 < \dots$) be an infinite sequence of positive integers, and let $k \geq 2$ be a fixed integer. Let $r_1(\mathcal{A}, n, k)$ denote the number of solutions of $a_{i_1} + a_{i_2} + \dots + a_{i_k} = n$, $a_{i_1} \in \mathcal{A}, \dots, a_{i_k} \in \mathcal{A}$. For $k = 2$, P. ERDŐS, A. SÁRKÖZY and V. T. SÓS studied the monotonicity of $r_1(\mathcal{A}, n, k)$. In this paper I extend one of their results to any $k > 2$.

Address:

Sándor Z. Kiss
Department of Algebra and Number Theory
Eötvös Loránd University
Pázmány Péter Sétány 1/c
H-1117 Budapest
Hungary