Ordaz, Oscar; Plagne, Alain; Schmid, Wolfgang A.
Some remarks on barycentric-sum problems over cyclic groups. (English) Zbl 1364.11032

Summary: We derive some new results on the $k$-th barycentric Olson constants of abelian groups (mainly cyclic). This quantity, for a finite abelian (additive) group $(G, +)$, is defined as the smallest integer $\ell$ such that each subset $A$ of $G$ with at least $\ell$ elements contains a subset with $k$ elements $\{g_1, \ldots, g_k\}$ satisfying $g_1 + \cdots + g_k = kg_j$ for some $1 \leq j \leq k$.

MSC: 11B30 Arithmetic combinatorics; higher degree uniformity

Keywords: barycentric Olson constants; abelian groups

Full Text: DOI arXiv

References:

This reference list is based on information provided by the publisher or from digital mathematics libraries. Its items are heuristically matched to zbMATH identifiers and may contain data conversion errors. It attempts to reflect the references listed in the original paper as accurately as possible without claiming the completeness or perfect precision of the matching.