
#### Abstract

A subset $\mathcal{A} \subseteq \mathbb{N}_{0}$ is called a basis of order $h$ if every positive integer can be represented as a sum of $h$ members of $\mathcal{A}$. Thin bases of order $h$ will be constructed in this paper, for each $h \geq 2$, where the value of $\lim \sup A(n) n^{-1 / 2}$ is smaller than that of thin bases known so far. To this end, a generalisation of bases of Stöhr's type, called UR-bases, is considered. In the most important case $h=2$ it is shown that for UR-bases the result is best possible up to an $\varepsilon>0$.


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