## On sumsets of nonbases of maximum size

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Let $G$ be a finite abelian group. A nonempty subset $A$ in $G$ is called a basis of order $h$ if $h A=G$; when $h A \neq G$, it is called a nonbasis of order $h$. Our interest is in all possible sizes of $h A$ when $A$ is a nonbasis of order $h$ in $G$ of maximum size; we provide the complete answer when $h=2$ or $h=3$.
Joint work with Béla Bajnok.

