

On the largeness of sumsets

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Abstract. Given sets A, B of natural numbers, we consider their sumset

$$A + B := \{x + y : x \in A, y \in B\}.$$

Then, we make the following questions precise: how many sumsets are there? How large a sumset can be? We conclude with some open questions.

About the speaker. Paolo Leonetti is an associate professor at Insubria Insubria in Italy. His interests lie within functional analysis, number theory, and decision theory. He has authored or coauthored about 60 papers, some of which have appeared in international journals such as Proceedings of the American Mathematical Society, Mathematical Proceedings of the Cambridge Philosophical Society, Fundamenta Mathematicae, Journal of Symbolic Logic, and Israel Journal of Mathematics.

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