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ABSTRACT. Let $\{a_1, a_2, \ldots, a_n, \ldots\}$ be a sequence of complex numbers which has at most polynomial growth and satisfies an extra assumption. In this talk, inspired by a recent work of Sasane, we give an explanation of the sum

$$a_1+2a_2+3a_3+\cdots+na_n+\cdots,$$

and more generally, for any $k \in \mathbb{N}$, the sum

$$1^k a_1 + 2^k a_2 + 3^k a_3 + \dots + n^k a_n + \dots,$$

from the viewpoint of distributions. As applications, we explain the following summation formulas





