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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

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

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

$$1^k - 2^k + \text{[illegible]} \quad E_k(0)$$

[illegible]

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