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The Extension of a Cyclic Inequality to the Symmetric Form

Abstract:

Let n be a natural number such that $n \geq 2$, and let $a_1, \ldots a_n$ be positive numbers. Considering the notations

$$S_{i_1 \ldots i_k} = a_{i_1} + \cdots + a_{i_k},$$

$$S = a_1 + \cdots + a_n,$$

we prove certain inequalities connected to conjugate sums of the form:

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