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Abstract:

Generalizations of the Ky Fan Inequality

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In this paper, we extend the Ky Fan inequality to several general integral forms, and obtain the monotonic properties of the function $\frac{L_{*}(a,b)}{L_{*}(\alpha-a,\alpha-b)}$ with

 $\alpha, a, b \in (0, +\infty)$ and $s \in \mathbb{R}$.

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