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Ky Fan's Inequality via Convexity

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Abstract: In this note, using the strict convexity and concavity of the function $f(x) = \frac{1}{1+e^x}$ on $[0, \infty)$ and $(-\infty, 0]$ respectively, we prove Ky Fan's inequality by separating the left and right hands of it by $\frac{1}{G_n + G'_n}$.

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