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REFINEMENTS OF AUDENAERT INTERPOLATION INEQUALITY

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Abstract. In this note, we present several refinements of Audenaert's inequality and his generalized results using log-convexity of some functions depending on special cases of unitarily invariant norms, the trace norm and the operator norm. At the same time, we provide a modification to an alternative proof, obtained by Al-Khlyleh and Alrimawi, of the generalized Audenaert's inequality, but for the operator norm.

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