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## A Stability Version of Hölder's Inequality for $0 < p < 1$

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**Abstract:** We use a refinement of Hölder's inequality for  $1 < p < \infty$  to obtain the corresponding refinement when  $r \in (0, 1)$ . This in turn allows us to sharpen the reverse triangle inequality on the nonnegative functions in  $L^r$ , for  $r \in (0, 1)$ .



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