WEIGHTED INEQUALITIES FOR HARMONIC MEANS

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Abstract. We characterize the weighted weak and strong type \((p, q)\) inequalities for the harmonic averaging operator

\[ Tf(x) = \frac{x}{\int_0^1 f} \]

in the cases \(0 < p \leq q < \infty\) and \(0 < q < p < \infty\).

Key words and phrases: Hardy inequalities, weights, weighted inequalities, harmonic means.

REFERENCES
