WEIGHTED HARDY AND PÓLYA–KNOPP INEQUALITIES WITH VARIABLE LIMITS

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Abstract. A new scale of characterizations for the weighted Hardy inequality with variable limits is proved for the case $1 < p \leq q < \infty$. A corresponding scale of characterizations for the (limit) weighted Pólya-Knopp inequality is also derived and discussed.

Key words and phrases: inequalities, Hardy type inequalities, Pólya-Knopp type inequalities, variable limits.

REFERENCES