

## WEIGHTED INEQUALITIES OF HARDY TYPE FOR MATRIX OPERATORS: THE CASE $q < p$

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*Abstract.* A non-negative triangular matrix operator is considered in weighted Lebesgue spaces of sequences. Under some additional conditions on the matrix, some new weight characterizations for discrete Hardy type inequalities with matrix operator are proved for the case  $1 < q < p < \infty$ . Some further results are pointed out.

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