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Discrete Hardy-type inequalities and optimal constants

Recently, several authors have considered the problem of determining optimal norm inequalities for discrete Hardy-type operators (like Cesàro or Copson). In this talk, we will obtain sharp bounds for the norms of the difference of the Cesàro operator with either the identity or the shift operator, when they are restricted to the cone of decreasing sequences in ℓ^p . Finally, we also address the case of weighted inequalities and find an interesting contrast between the norms of these two difference operators.

This is a joint work with Santiago Boza (UPC).