

Braverman, Michael Sh.; Stepanov, Vladimir D.

On the discrete Hardy inequality. (English) Zbl 0806.26011

Bull. Lond. Math. Soc. 26, No. 3, 283-287 (1994).

Necessary and sufficient conditions for the boundedness of the discrete Hardy's operator of the form $Pf(n) = \sum_{k=1}^n f(k)$, from l_v^p to l_u^q when $0 < q < 1 < p < \infty$ is given.

Reviewer: M.Sh.Braverman and V.D.Stepanov (Khabarovsk)

MSC:

26D15 Inequalities for sums, series and integrals

42B25 Maximal functions, Littlewood-Paley theory

Cited in **12** Documents

Keywords:

discrete Hardy's inequality; Halperin's lemma; boundedness; discrete Hardy's operator

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