

Title: Matrix transformations on the matrix domains of triangles in the spaces of strongly C_1 -summable and bounded sequences

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Let $\mathcal{A}$, $\mathcal{B}$ and $\mathcal{C}$ be the sets of sequences that are strongly summable to zero, summable and bounded of index $p \geq 1$ by the Cesàro method of order 1, which were introduced by Maddox [I. J. MADDUX, On Kuttner's theorem, J. London Math. Soc. **43** (1968), 285–290]. We study the matrix domains $\mathcal{A} = (w_0^p)_T$, $\mathcal{B} = (w^p)_T$ and $\mathcal{C} = (w_\infty^p)_T$ of arbitrary triangles T in $\mathcal{A}$, $\mathcal{B}$ and $\mathcal{C}$, determine their β -duals, and characterize matrix transformations on them into the spaces c_0 , c and ℓ_∞ .

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