

Fine spectra of upper triangular double-band matrices over ℓ_p and bv_p

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The fine spectra of lower triangular double-band matrices were examined by several authors. Here we determine the fine spectra of upper triangular double-band matrices over the sequence spaces $\ell(p)$ and $bv(p)$. Upper triangular double-band matrices are infinite matrices which include the left-shift, averaging and difference operators.