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Copies of l^1 and c_o in Musielak-Orlicz sequence spaces

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Abstract: Criteria in order that a Musielak-Orlicz sequence space l^Φ contains an isomorphic as well as an isomorphically isometric copy of l^1 are given. Moreover, it is proved that if $\Phi = (\Phi_i)$, where Φ_i are defined on a Banach space, X does not satisfy the δ_2^o -condition, then the Musielak-Orlicz sequence space $l^\Phi(X)$ of X -valued sequences contains an almost isometric copy of c_o . In the case of $X = \mathbb{R}$ it is proved also that if l^Φ contains an isomorphic copy of c_o , then Φ does not satisfy the δ_2^o -condition. These results extend some results of [A] and [H2] to Musielak-Orlicz sequence spaces.

Keywords: Musielak-Orlicz sequence space, copy of l^1 , copy of c_o

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