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The Dual Spaces of the Sets of Difference Sequences of Order \$m\$

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Authors:	C.A. Bektas, Mikhail Et,
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Abstract:

The idea of difference sequence spaces was introduced by Kizmaz [5] and the concept was generalized by Et and Çolak [3]. Let $p = (p_k)$ be a bounded sequence of positive real numbers and $v = (v_k)$ be any fixed sequence of non-zero complex numbers. If $x = (x_k)$ is any sequence of complex numbers we write $\Delta_v^m x$ for the sequence of the m-th order differences of x and $\Delta_v^m (X) = \{x = (x_k) : \Delta_v^m x \in X\}$ for any set Xof sequences. In this paper we determine the α -, β - and γ - duals of the sets $\Delta_v^m (X)$ which are defined by Et et al. [2] for $X = \ell_\infty(p)$, c(p) and $c_0(p)$. This study generalizes results of Malkowsky [9] in special cases.

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