# Some generalizations of $\beta$-duals of sequence spaces

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We will start with the set $M(X,Y)$, multiplier space, defined by:

$$M(X,Y) = \{a = (a_k) \in \omega \mid ax \in Y, \text{ for all } x \in X\}$$

where $\omega$ denote the space of all complex-valued sequences and $X$ and $Y$ are sequence spaces. Specially, putting $Y = cs$, where $cs$ is the set of convergent series, the multiplier space becomes $\beta$-dual of $X$. In this talk, we will present some generalized results related to $X^\beta$ and extend some of existing. Finally, we will illustrate these generalizations with some examples and applications.