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(X_d, X_d^*) -BESSEL MULTIPLIERS IN BANACH SPACES

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ABSTRACT. Multipliers have recently been introduced as operators for Bessel sequences and frames in Hilbert spaces. In this paper, we define the concept of (X_d, X_d^*) and (l^∞, X_d, X_d^*) -Bessel multipliers in Banach spaces and investigate the compactness of these multipliers. Also, we study the possibility of invertibility of (l^∞, X_d, X_d^*) -Bessel multiplier depending on the properties of its corresponding sequences and its symbol. Furthermore, we prove that every (X_d, X_d^*) -Bessel multiplier is a λ -nuclear operator.

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