

# **The spectrum of the generalized lower triangle double-band matrix $\Delta_a$ over the sequence space $c$**

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## **Abstract**

The main purpose of this paper is to determine the spectrum of the generalized difference operator  $\Delta_a$  over the sequence space  $c$ . The results of this paper generalize the corresponding results in [B. Altay, F. Basar, On the fine spectrum of the difference operator on  $c_0$  and  $c$ , Inform. Sci. 168 (2004), 217-224].

**Key words:** *spectrum of an operator, Generalized difference operator, Sequence spaces.*