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The Fine Spectra of the Rhaly Operators on c_0

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Abstract: In 1975, Wenger [3] determined the fine spectra of Cesàro operator C_1 on c , the space of convergent sequences. In [6], the spectrum of the Rhaly operators on c_0 and c , under the assumption that $\{\lim_{n \rightarrow \infty} (n+1)a_n\} = L \neq 0$, has been determined. This paper presents the fine spectra of the Rhaly matrix R_a as an operator on the space c_0 , with the same assumption.

Key Words: Rhaly operator, spectrum and point spectrum.



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