On the fine spectrum of the operator Δ v over the sequence spaces c and lp,(1< p<∞)

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Abstract

The purpose of this paper is threefold: first to mainly review several recent results concerning the fine spectrum of the operator ¢vover the sequence spaces c and l, where1 < p < 1; second to provide some new results concerning the residual spectrumand the continuous spectrum of the operator ¢vover the sequence spaces c and l; and third to modify the definition of the operator ¢and to determine the fine spectrum of the modified operator over the sequence spaces c and lv, where 1 < p < 1. Also, it may be helpful to provide some comments and examples to support our results.