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The Approximation Theorem of Convolution Operator in $\Delta \sim p$ Set-valued Function Space

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摘要 The paper is a contribution to the problem of approximating random set with values in a separable Banach space. This class of set-valued function is widely used in many areas. We investigate the properties of p-bounded integrable random set. Based on this we endow it with Δ -p metric which can be viewed as a integral type hausdorff metric and present some approximation theorem of a class of convolution operators with respect to Δ -p metric. Moreover we also ca establish analogous theorem for other integral type operator in Δ -p space.

关键词 <u>Set-valued function</u> <u>random set</u> <u>convolution operator</u> 分类号

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Key words Set-valued function random set convolution operator

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