

OPTIMAL EXTENSIONS FOR OPERATORS ON BANACH FUNCTION SPACES

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Abstract. Let (Ω, Σ, μ) be a measure space, X a Banach function space related to μ and $T: X \rightarrow Z$ a linear operator with values in a Banach space Z . We will deal with two questions: Can T be extended to a larger domain in a way that the extension (still with values in Z) preserves the properties of T ? And, in this case, which is the largest domain in this sense?

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