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The Dual of the Bochner Space  $L^p(\mu, E)$  for arbitrary  $\mu$

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**Abstract:** Let  $\mu$  be a finite measure,  $E$  a Banach space, and  $1 \leq p < \infty$ ,  $1 < q \leq \infty$  be such that  $\frac{1}{p} + \frac{1}{q} = 1$ . It is known that  $L^p(\mu, E)^* \simeq L^q(\mu, E^*)$  if, and only if,  $E^*$  has the Radon-Nikod\ym property with respect to  $\mu$ . The aim of this article is to generalize the above result to arbitrary measures.

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