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Some Applications of the Lattice Finite Representability in Spaces of Measurable Functions

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**Abstract:** We study the lattice finite representability of the Bochner space  $L_p(\mu_1, L_q(\mu_2))$  in  $\|\cdot\|_p$ ,  $1 \leq p, q < \infty$ , and then we characterize the ideal of the operators which factor through a lattice homomorphism between  $L_{\infty}(\mu)$  and  $L_p(\mu_1, L_q(\mu_2))$ .

**Key Words:** Integral operators, Ultraproducts of spaces and maps.

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