Abstract. In this paper we study the lattice properties of the Banach lattices $L^p(\nu)$ and $L^w_p(\nu)$ of $p$-integrable real-valued functions and weakly $p$-integrable real-valued functions with respect to a vector measure $\nu$ defined on a $\delta$-ring. The relation between these two spaces, the study of the continuity and some kind of compactness properties of certain multiplication operators between different spaces $L^p$ and/or $L^w_p$ and the representation theorems of general Banach lattices via these spaces play a fundamental role.

Keywords and phrases: Banach lattice, $\delta$-ring, Vector measure, Integration.

REFERENCES


