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Denting Points in Bochner Banach Ideal Spaces X(E)

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Abstract: Let $(X, \|.\|_{X})$ be an order-continuous Banach ideal space over a $\sigma-$ finite measure space (Ω,Σ,μ) and E a Banach space. We prove that a function f of the vector Banach ideal space $X(E)$ is a denting point of the unit ball of $X(E)$ if and only if : (i) the modulus function $|f| : t\longmapsto \|f(t)\|$ is a denting point of the unit ball of X and (ii) $f(t)/ \|f(t)\|$ is a denting point of the unit ball of E for almost all t in $\supp(f)$. This gives an answer to the open problem raised in the paper [3].

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[Previous Article] [Next Article] [Contents of this Number]