MEHMET ORHON, University of New Hampshire, Mathematics Department, Kingsbury Hall, Durham, NH 03824 On the ideal center of the dual of a Banach lattice

Let X be a Banach lattice. Its ideal center Z(X) is embedded naturally in the ideal center Z(X') of its dual. The embedding may be extended to a contractive algebra and lattice homomorphism of Z(X)'' into Z(X'). We show that the extension is onto Z(X') if and only if X has a topologically full center (that is, the closure of Z(X)x is the closed ideal generated by each $x \in X$). The result can be generalized to the ideal center of the order dual of an Archemedian Riesz space and in a modified form to the orthomorphisms on the order dual of an Archemedian Riesz space.