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A note on Archimedean Riesz spaces and their extended order duals. (English)

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Libertas Math. 6, 101-106 (1986).

It is well-known that an Archimedean Riesz space E can be represented as an order dense Riesz subspace of $C_\infty(X)$, for some Stonian space X . In the present paper it is proved that E is separated by its extended order dual iff X is hyperstonian; moreover, some consequences of this result are considered.

MSC:

46A40 Ordered topological linear spaces, vector lattices

Cited in 4 Documents

Keywords:

hypercomplete Riesz space; Archimedean Riesz space; Stonian space; extended order dual; hyperstonian