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**Remarkable classes of unital AM-spaces.** (English) Zbl 0792.46004  
[J. Math. Anal. Appl.](#) 180, No. 2, 398-411 (1993).

Summary: We define and investigate two classes of unital Banach AM-spaces, the elements of which are the sums of continuous functions and discrete functions. Neither class is almost Dedekind  $\sigma$ -complete, although one has the Cantor property. One class has the rather rare property of having a sequentially order continuous norm and we deduce that any  $C(K)$  space can be embedded as a sublattice of a  $C(X)$  space with a sequentially order continuous norm. Finally we identify the order continuous and sequentially order continuous duals of spaces in these classes, which promise to be a rich source of further examples.

**MSC:**

[46A40](#) Ordered topological linear spaces, vector lattices

Cited in **9** Reviews  
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**Keywords:**

[unital Banach AM-spaces](#); [almost Dedekind  \$\sigma\$ -complete](#); [Cantor property](#)

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