

A solution to Haagerup's problem on normal weights

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We will introduce three open problems related to normal weights posed by Haagerup 50 years ago in his master's thesis. Among these, we especially discuss how we could solve the last problem and its meaning. This will provide a complete set of the positive Hahn-Banach separation theorems on operator algebras and shed light on why the weak* topologies on the duals of C*-algebras are relatively difficult to work with.