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## The haagerup problem on subadditive weights on $W^*$ -algebras

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### Abstract

In 1975 U. Haagerup stated the following question: Is every normal subadditive weight on a  $W^*$ -algebra sigma-weakly lower semicontinuous? Here we positively answer this question in a particular case of abelian  $W^*$ -algebras and present a general form of normal subadditive weights on these algebras. © Allerton Press, Inc., 2011.

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### Keywords

$C^*$ -algebra, Measurable function, Subadditive weight,  $W^*$ -algebra