Any Regular Measure on Conjugation Logic is a Complex Measure

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Abstract

Let H be the complex Hilbert space with conjugation J. Denote by B(H)co the quantum logic of all J-projections on H. A non-zero function $\mu(\{dot operator\}):=tr(A(\{dot operator\}))$ on B(H)co is said to be a regular measure. Here A is a trace class operator. It is shown that there exists a J-projection p such that. We give a description of the hermitian and skew hermitian regular measures. © 2011 Springer Science+Business Media, LLC.

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