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HOW TO SOLVE THE INEQUALITY $U_t m \leq m$ FOR EVERY t $(0 < t < 1)$?

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Abstract: Let $\{U_t : 0 < t < 1\}$ be a semi-group of measurable transformations on a measurable space $(X, \mathcal{M})$. In this paper we characterize a σ-finite measures m on $\mathcal{M}$ satisfying the inequality $U_t m \leq m$ for every t $(0 < t < 1)$. Some applications are given for operator-selfdecomposable, V-decomposable, s-selfdecomposable, and multiply s-selfdecomposable measures.

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