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On Compactifications of bounded C_0-semigroups

In this study, we refine the compactification presented by Witz [1] for general semigroups to the case of bounded C_0-semigroups, involving adjoint theory for this class of operators. This approach considerably reduces the operator space where the compactification is constructed. Additionally, this approach leads to a decomposition of $X^\odot$ and to an extension of ergodic results to dual semigroups.

Keywords: recurrent vectors, flight vectors, almost automorphic vectors

References

[1] K. Witz, *Applications of a compactification for bounded operator semigroups*, Illinois J. Math. **8** (1964), 685–696.