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Admissible and weakly admissible observation operators for the right shift semigroup.

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Starting from the fact that weak admissibility implies infinite-time admissibility for $T(t)$ in the case that $T(t)$ is a semigroup of contractions right invertible and exponentially stable, G. Weiss conjectured that weak admissibility implies admissibility for the general case. In the meantime, a counterexample was found, showing that weak admissibility does not imply admissibility for analytic semigroups. In this paper, another example is presented showing that weak admissibility does not imply admissibility in the general case.

Reviewer: [Ilie Valușescu \(București\)](#)

MSC:

[47N70](#) Applications of operator theory in systems, signals, circuits, and control theory

[47D06](#) One-parameter semigroups and linear evolution equations

[93B28](#) Operator-theoretic methods

[93B07](#) Observability

Cited in **13** Documents

Keywords:

[shift semigroup](#); [admissibility](#); [Hankel operator](#); [observation operator](#)

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