

On reducing subspaces of a certain class of contractions

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Using the Sz.-Nagy–Foias theory of contractions, we obtain general results about reducibility for a class of completely nonunitary contractions. These are applied to certain truncated Toeplitz operators, previously considered by Li–Yang–Lu and Gu. In particular, a negative answer is given to a conjecture stated by the latter.

(The talk is based on a joint work with E. Fricain and D. Timotin)

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