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**Derek Allen Thompson\*** ([theycallmedt@gmail.com](mailto:theycallmedt@gmail.com)). *Restrictions to Invariant Subspaces of Composition Operators on the Hardy Space of the Disk.*

Invariant subspaces are a natural topic in linear algebra and operator theory. In some rare cases, the restrictions of operators to different invariant subspaces are unitarily equivalent, such as the restrictions of the unilateral shift on  $H^2(\mathbb{D})$  to the subspaces  $z^k H^2$ . A composition operator with symbol fixing 0 also has these subspaces invariant, and if the symbol is linear fractional and extremally noncompact, the restrictions to these subspaces all have the same norm and spectrum. Despite this evidence, we will use semigroup techniques to show many cases where the restrictions are still not unitarily equivalent. (Received March 13, 2013)